INDUSTRIAL PUMPS

COMET

219CI

TABLE OF CONTENTS

4 *WHY COMET INDUSTRIAL PUMPS*

6 *OPERATION AND COMPOSITION*

12 *APPLICATIONS*

14 *TRIPLEX PUMPS*

BWD-K	pg. 15
AWD-K	pg. 17
LW/LWS/LWD	pg. 18
LWD-K	pg. 21
LWS-K	pg. 22
EWD/EWD-K	pg. 23
ZWD	pg. 24
ZWD-K	pg. 26
FW2/FWS2/FWD2	pg. 27
RW/RWS	pg. 30
SW/SWS	pg. 33
TW/TWS/TWN	pg. 34
TW500/TWS500	pg. 35
TW10000	pg. 36

37 *PUMPS FOR HIGH TEMPERATURE WATER*

RW	pg. 38
SW/SWS	pg. 39
TW/TWS	pg. 40

41 *AXIAL PUMPS*

VRX	pg. 42
BXD	pg. 44
AXD	pg. 46
AXS	pg. 48
CXD	pg. 49

50 *MISTING PUMPS - LOW FLOW*

LW	pg. 51
LWS	pg. 52

53 *ACCESSORIES*

94 *CONVERSION TABLES*

95 *NOZZLE CHART*

Why Comet Industrial Pumps?

COUNT ON COMET QUALITY:

For over 60 years, Comet has provided constant development and innovation for a wide range of high pressure plunger pumps. Every Comet pump is designed with only premium components that are tested under the most rigorous conditions before reaching production.

GROUNDBREAKING INNOVATION:

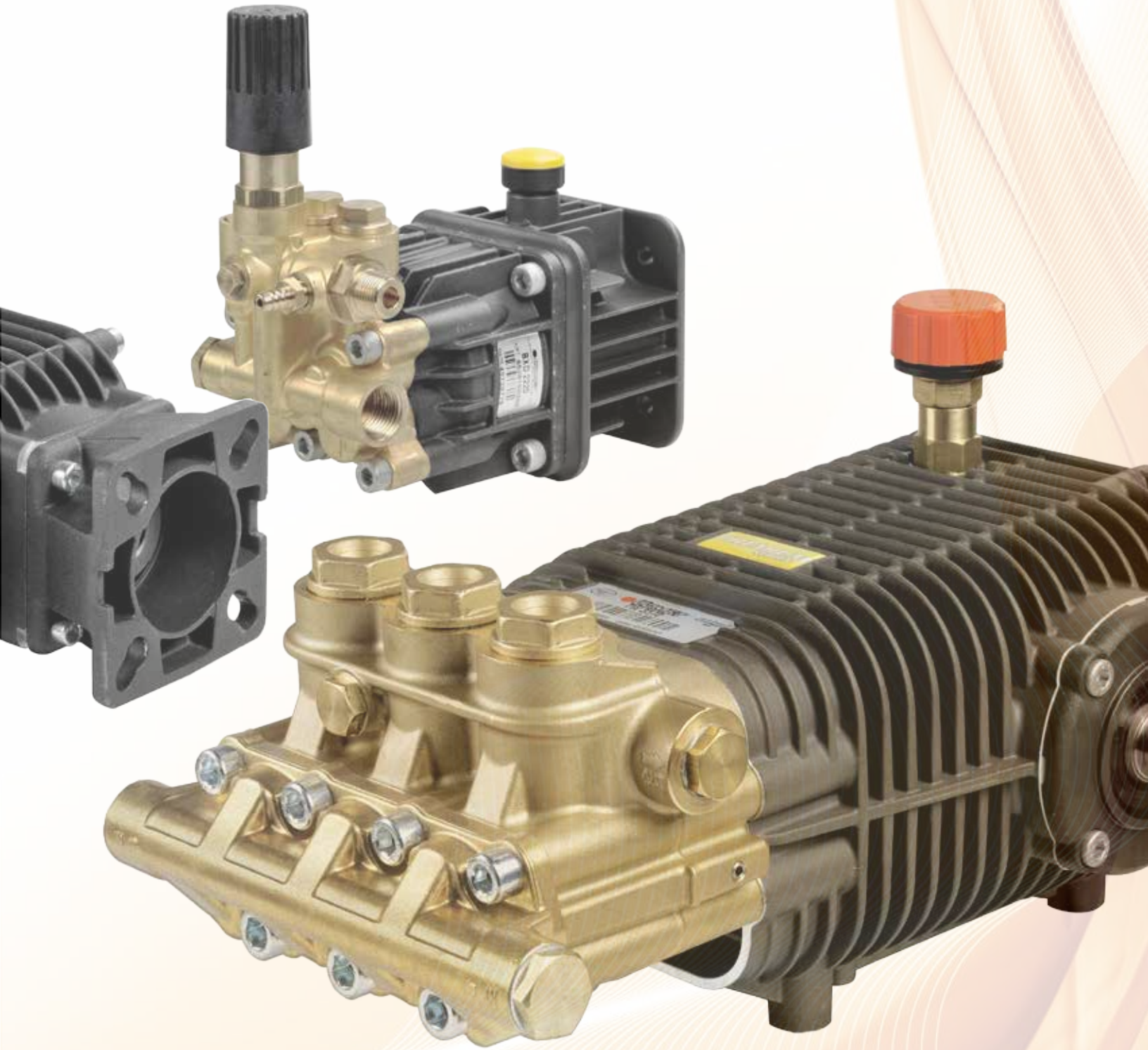
Comet never stays in a perpetual state. Around the clock, we continue to offer new designs, concepts and solutions to our customer base. With the support of our exclusive partners, Comet will continue to provide what the industry needs and deserves.

360° CUSTOMER SERVICE:

We know that our job doesn't end when product goes out the door. Comet provides 360 degree visibility to all of our customers, big or small. Through trouble-shooting guides or an informed sales staff, effortlessly get solutions to your problems.

Comet plunger pumps are distributed through Valley Industries.
For more information on Valley Industries visit www.valleyind.com.

COMET



Comet plunger pumps Operation and composition

Comet plunger pumps fall into the category of reciprocating positive displacement plunger pumps, i.e., equipped with technical features whereby the flow of liquid occurs by virtue of changes in one or more capacities which, alternately, convey the liquid back and forth. The difference between maximum and minimum volume of the variable capacity represents the theoretical volume of the pumped liquid.

Comet plunger pumps are divided into two categories:

1) Inline (or Triplex) plunger pumps
2) Axial plunger pumps

Both types of pumps are essentially made up of two fundamental constructive elements, assembled together in a fixed way:

- the head, which contains the hydraulic part of the pump
- the crankcase, which contains the mechanical-kinematic part (oil bath).

The other main elements, common to both categories of pumps, are:

- the hydraulic seal system on the pistons, consisting of pumping pistons, rings and seals
- the suction and delivery valves

These parts are all located in the head

The main difference between the two types of plunger pumps (inline and axial) is constituted by the mechanical-kinematic part, which determines the reciprocating motion of the pistons.

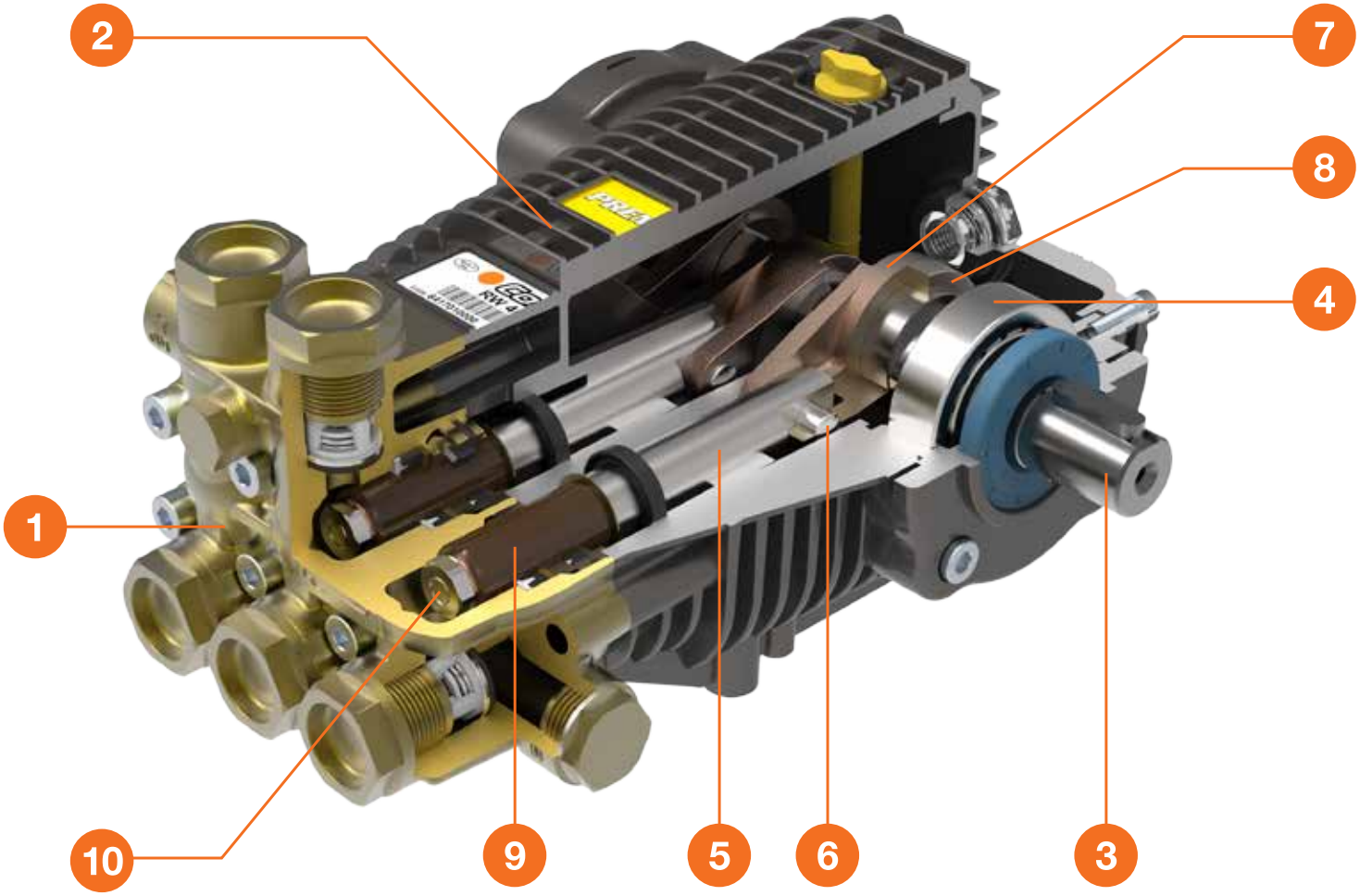
Inline (Triplex) plunger pump

The Comet inline (Triplex) plunger pump features three pumping elements, arranged along parallel axes lying on the same horizontal plane. Each of the above pumping elements consists of a piston (made up of a “drive” section and a “pumping” section), driven in a reciprocating manner by a rod-crank system, which is responsible for the suction and pressure actions.

The pumping piston is of the “plunger” type, i.e., the pumped liquid sealing system is fixed, while the piston slides inside.
The pumping elements are then driven by a shaft with three eccentrics offset by 120°. The shaft with three eccentrics is supported by two bearings and has one end protruding from the crankcase to get its motion from the motor driving the pump.

Each pumping element is made as described below.
The reciprocating motion of the drive piston is produced by the connecting rod through the piston pin; the connecting rod is in turn operated by one of the three eccentrics belonging to the shaft which transmits the motion to the pump..

To the drive piston is connected the pumping piston, which can be made with a ceramic bushing, fitted to the drive piston and retained by a nut, or by providing a ceramic insert section directly on the drive piston. The sealing system acts on the pumping piston to ensure the seal of the pumped liquid during the reciprocating pumping piston sliding.



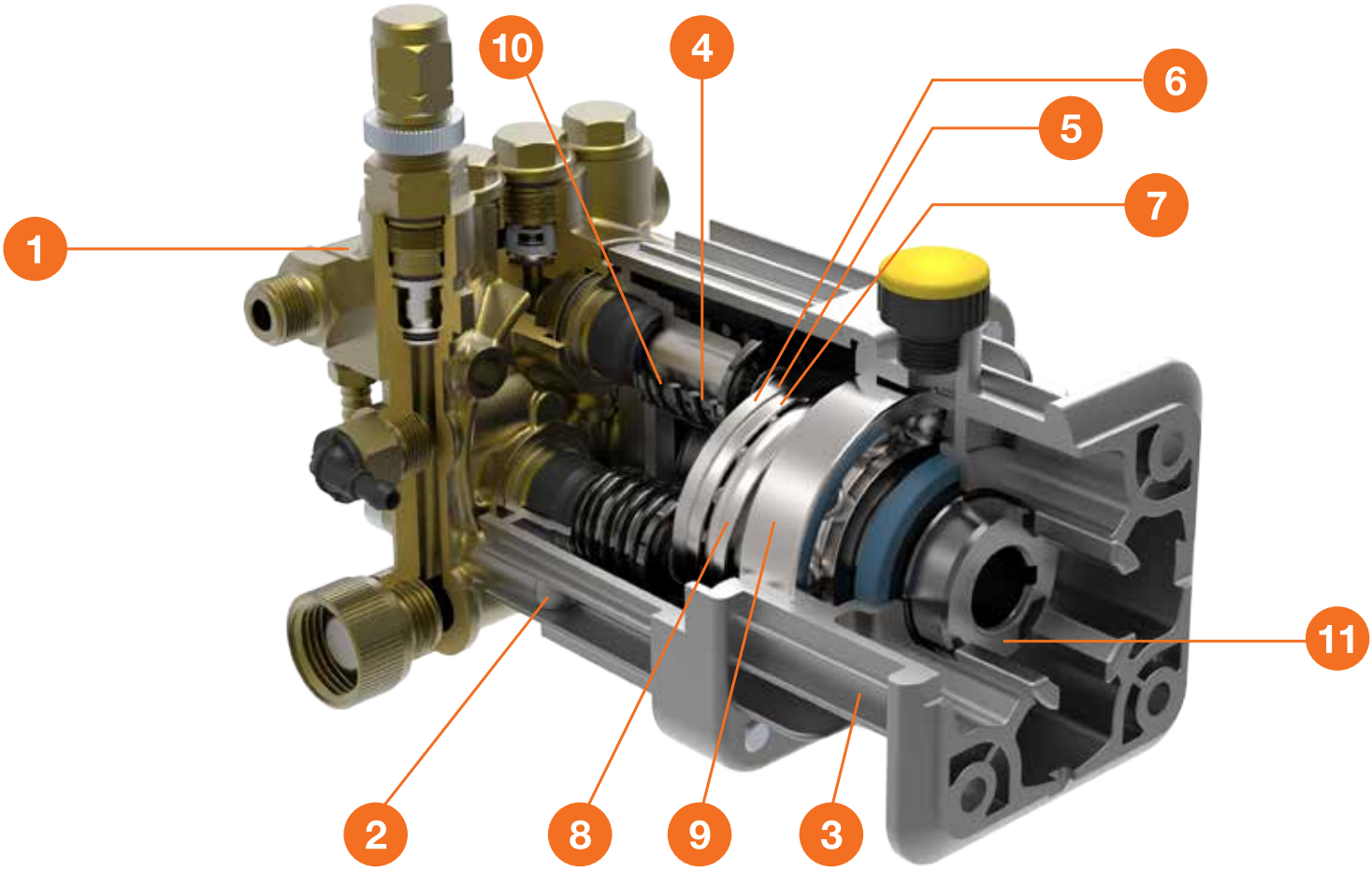
1. Head - **2.** Crankcase - **3.** Shaft - **4.** Bearings - **5.** Drive piston - **6.** Pin - **7.** Connecting rod - **8.** Eccentric
9. Bushing (Pumping piston) - **10.** Nut

Axial plunger pump

The Comet axial plunger pump always features three pumping elements, arranged in parallel axes in this case on three equidistant generators of a geometric cylinder.
Each of the above pumping elements consists of a piston (made up, in this case too, of a “drive” section and a “pumping” section) driven in a reciprocating manner by a tilted-plate thrust system and by a spring return system. The pumping piston is always of the “plunger” type, i.e., the pumped liquid sealing system is fixed, while the piston slides inside.

The plate, which is tilted with respect to the piston axis, provides the thrust to the drive piston by means of a coupling attachment
(or sheet) which acts on the end of the piston itself by the interposition of an axial bearing between the coupling attachment and plate. The plate is integral with the shaft that drives the pump and which is coaxial with the three pistons. The shaft is in turn supported by a thrust bearing, housed in the pump support, and has one extremity protruding from the support to get its motion from the motor driving the pump.

The drive piston is connected to the pumping piston, which is made with a ceramic insert section or with a special surface treatment performed directly on the drive piston. The sealing system acts on the pumping piston to ensure the seal of the pumped liquid during the reciprocating pumping piston sliding.



1. Head - **2.** Crankcase - **3.** Pump support - **4.** Piston - **5.** Piston end - **6.** Coupling attachment
7. Plate axial bearing - **8.** Eccentric plate - **9.** Thrust bearing - **10.** Piston return spring - **11.** Pump shaft

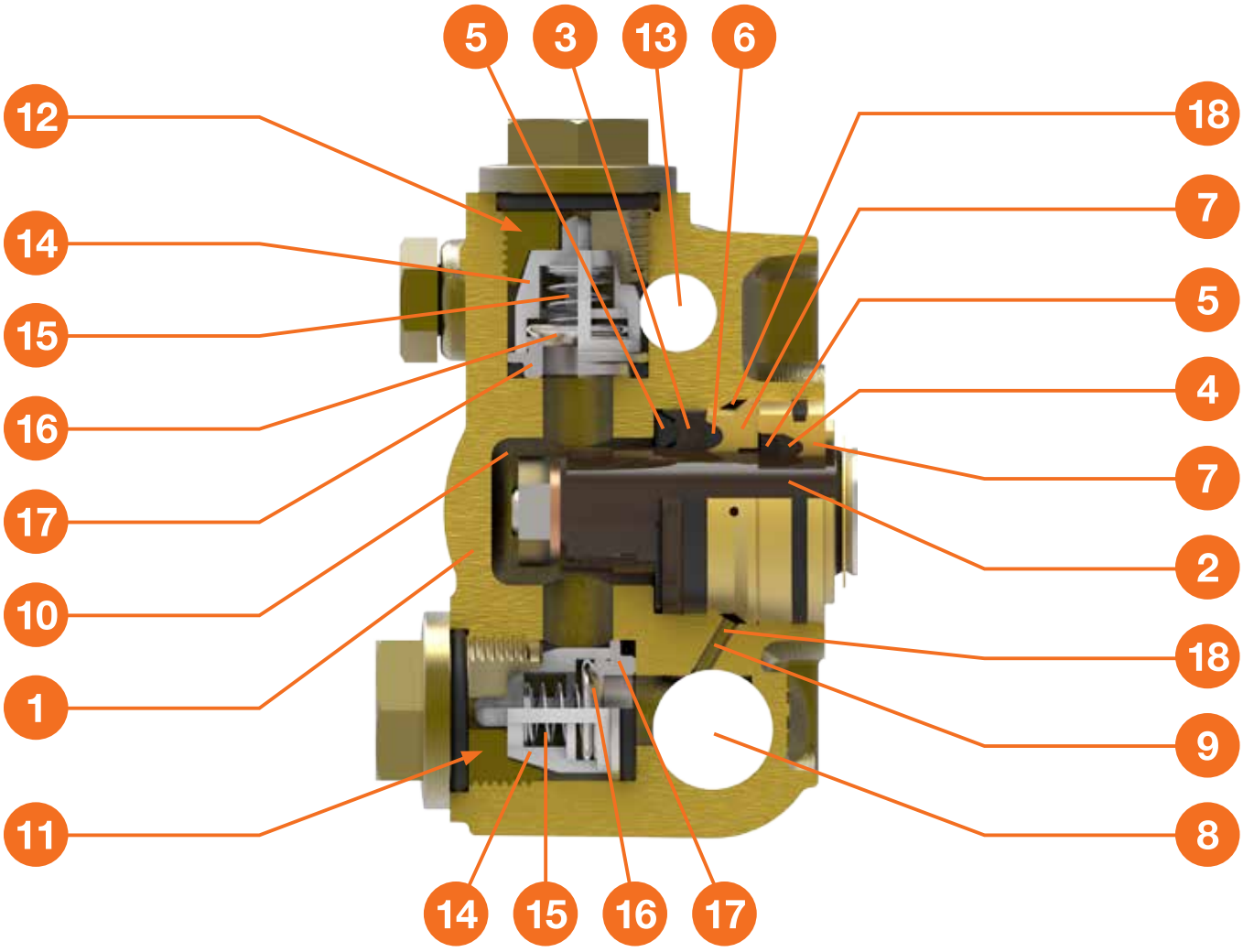
Sealing system on pumping pistons

The sealing system, on both types of pumps, is essentially made up of two gaskets: a high-pressure gasket, with the function of sealing the pumped liquid, and a low-pressure gasket, with the function of sealing any liquid leaking out of the high-pressure gasket.

The two gaskets are spaced apart, with the interposition of an annular chamber which is in communication, via a connecting hole, with the intake manifold. This constructive configuration has two functions:

- to create a recovery tank for the possible leakage of liquid out of the high-pressure gasket, preventing this from reaching the outside
- to ensure the presence of liquid between the two gaskets, including in the absence of leakage out of the high-pressure gasket; this keeps the low-pressure gasket wet and therefore prevents it from overheating in the absence of lubrication.

Other accessory gasket parts are generally also a part of the sealing system such as pressure rings, gasket support rings and anti-extrusion rings. The presence and type of construction of these accessory elements are linked to several factors, among which the most important are the type of gasket adopted and the pump working pressure.



1. Head - **2.** Pumping Piston - **3.** High-pressure Gasket - **4.** Low-pressure Gasket - **5.** Pressure rings - **6.** Anti-extrusion ring **7.** Gasket support rings - **8.** Intake manifold - **9.** Connecting hole - **10.** Pumping chamber - **11.** Suction valve - **12.** Delivery valve **13.** Delivery manifold - **14.** Valve cage - **15.** Valve spring - **16.** Valve plate - **17.** Valve seat - **18.** Annular chamber

Axial plunger pump

The Comet axial plunger pump always features three pumping elements, arranged in parallel axes in this case on three equidistant generators of a geometric cylinder.
Each of the above pumping elements consists of a piston (made up, in this case too, of a “drive” section and a “pumping” section) driven in a reciprocating manner by a tilted-plate thrust system and by a spring return system. The pumping piston is always of the “plunger” type, i.e., the pumped liquid sealing system is fixed, while the piston slides inside.

The plate, which is tilted with respect to the piston axis, provides the thrust to the drive piston by means of a coupling attachment
(or sheet) which acts on the end of the piston itself by the interposition of an axial bearing between the coupling attachment and plate. The plate is integral with the shaft that drives the pump and which is coaxial with the three pistons. The shaft is in turn supported by a thrust bearing, housed in the pump support, and has one extremity protruding from the support to get its motion from the motor driving the pump.

The drive piston is connected to the pumping piston, which is made with a ceramic insert section or with a special surface treatment performed directly on the drive piston. The sealing system acts on the pumping piston to ensure the seal of the pumped liquid during the reciprocating pumping piston sliding.

Suction and delivery valves

Each pumping element of both types of pumps (inline pistons and axial pistons) is provided with a suction valve and a delivery valve, normally identical and arranged in the opposite direction the one to the other. The purpose of these valves is to intercept the liquid and permit the pumping action in the working cycle corresponding to the shaft rotation.

The operation of the valves is of the automatic type, i.e., opening and the closing are determined by the pressure difference of the fluid on the valve plate, held in position by the contrasting force of a spring.

A complete rotation of the pump shaft causes an intake phase (piston return to bottom dead centre) and a delivery phase (advancement of the piston to the upper dead centre) for each pumping element. In the intake phase the liquid is sucked through the suction valve into the pumping chamber formed in the head, while the delivery valve is closed. In the delivery phase, the liquid is pushed out of the pumping chamber through the delivery valve while the suction valve is closed.

The pumping elements are connected transversely to each other by means of intake and delivery manifolds obtained in the head.

Efficiency

The efficiency of the Plunger pumps is identified by the following physical quantities:

- Flow rate
- Pressure
- Power

The **flow rate** is the volume pumped in the unit of time and it is possible to distinguish a theoretical Flow Rate **Qt** (flow rate which can theoretically be supplied by the pump) and an actual flow rate **Qe** (actual flow rate supplied by the pump). The Flow Rate is normally expressed with the unit of measurement **l/min** (metric system) or **gpm** (system used in English-speaking countries). The Flow Rate **Qt** for the three-piston **inline** pumps is calculated using the following formula (valid for metric units):

$$\mathbf{Qt}\ [\mathrm{l/min}] = \frac{\mathbf{3}\times\boldsymbol{\pi}\times\mathbf{D}^{\mathbf{2}}[\mathrm{mm}]\times\mathbf{e}[\mathrm{mm}]\times\mathbf{n}[1/\mathrm{min}]}{\mathbf{2}\times\mathbf{10}^{\mathbf{6}}}$$

Wherein:
D [mm] = piston diameter
e [mm] = pump shaft eccentric
n [rmp] = rotation speed

The Flow Rate **Qt** for the three-piston axial pumps is instead calculated using the following formula (valid for metric units):

$$\mathbf{Qt}\ [\mathrm{l/min}] = \frac{\mathbf{3}\times\boldsymbol{\pi}\times\mathbf{D^2}[\mathrm{mm}]\times\mathbf{i}\ [\mathrm{mm}]\times\mathbf{tan}\,\boldsymbol{\alpha}\times\mathbf{n}[1/\mathrm{min}]}{\mathbf{2}\times\mathbf{10^6}}$$

Wherein:
D [mm] = piston diameter
i [mm] = piston centre distance (distance between pump axis and a piston axis)
α [rad] = pump plate inclination angle
n [rmp] = rotation speed

From the above figures in metric units, the flow rate can be obtained in units used in English-speaking countries with the formula:

$$\mathbf{Qt}\ [\mathrm{gpm}] = \frac{\mathbf{Qt}\ [\mathrm{l/min}]}{\mathbf{3,785412}}$$

The ratio between the two flow rates, theoretical and actual, defines the volumetric efficiency ηv of the pump:

$$\boldsymbol{\eta}_\mathbf{v} = \frac{\mathbf{Qe}}{\mathbf{Qt}}$$

The flow rate figures which appear in the catalogue efficiencies are those of the actual flow rate **Qe**.

The flow rate of positive-displacement plunger pumps is proportionate to the rotation speed and tends to be independent from the delivery pressure, though it does tend to drop as the latter increases.

The **pressure** is the maximum value possible in the pump head in operating conditions.
It must however be realized that positive-displacement plunger pumps do not intrinsically develop pressure during their movement, but move liquid by virtue of their construction features, described in the previous chapter. If however, downstream of the pump, in the delivery circuit, there is an obstacle (e.g., a nozzle), the pressure is generated in the pump head needed to ensure the pump flow rate is able to cross the encountered obstacle.

APPLICATIONS FOR HIGH PRESSURE PISTON PUMPS

	psi [bar]													
	250 [18]	500 [35]	800 [55]	1000 [70]	1200 [85]	1500 [105]	1800 [125]	2000 [140]	2500 [155]	3000 [210]	3500 [245]	4000 [275]	5000 [345]	7250 [500]
CLEANING														
Aircraft Engine		✓	✓											
Battery			✓	✓										
Buses				✓	✓	✓	✓	✓	✓	✓	✓	✓		
Cars			✓	✓	✓	✓								
Carpet	✓	✓	✓	✓	✓									
Ceramic Tile Vat							✓	✓	✓					
Compressor Castings		✓	✓											
CIP Multiple Station			✓	✓	✓	✓	✓	✓						
Filter		✓	✓	✓										
Food Plant Sanitizing		✓	✓	✓	✓	✓	✓	✓						
Freight Trucks						✓	✓	✓						
Heat Exchanger Tube Coils	✓	✓												
Heavy Equipment						✓	✓	✓	✓	✓	✓	✓	✓	
Hog Cleaning/Sanitizing			✓	✓	✓									
Live Wire Insulator		✓	✓	✓										
Locomotive				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Moss/Mildew Removal			✓	✓	✓									
Offshore Platform								✓	✓	✓	✓	✓	✓	✓
Oil Storage Tank								✓	✓	✓	✓			
Potatoes			✓	✓	✓									
Sander Belts									✓	✓	✓			
Screen/Filter		✓	✓	✓	✓	✓	✓							
Seal Gland Flushing					✓	✓	✓	✓						
Sponge Vat							✓	✓	✓					
Vegetables		✓	✓											
HYDROSTATIC														
BOP		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hydraulic Power HWBF - 95/5		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Jockey Pumps				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pipe/Tube Testing		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Textile Water Extraction	✓	✓	✓											
LIQUID INJECTION														
Ag Fertilizer/Herbicides						✓	✓	✓	✓	✓	✓	✓		
Beer Exciting	✓	✓												
Boiler Feed	✓	✓	✓	✓	✓									
Diesel/Fuel Oil									✓	✓	✓	✓	✓	
Golf Course Aeration									✓	✓	✓	✓	✓	
Brine Oil Waste Water			✓	✓	✓	✓	✓	✓	✓	✓				
Oil Field, Glycol Injection				✓	✓	✓	✓	✓						
Oil Field, Methanol						✓	✓	✓	✓	✓	✓	✓	✓	
Oil Field, Water/Glucose						✓	✓	✓	✓	✓	✓	✓	✓	
Pesticide				✓	✓	✓								
Secondary Recovery/Well Stimulation					✓	✓	✓	✓	✓	✓	✓	✓	✓	
Undersea Diving Vessel			✓	✓										
METERING														
Crude Oil Transfer		✓	✓	✓	✓									
Homogenizing			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Machine Tool Coolant Flushing						✓	✓	✓	✓	✓				

	psi [bar]													
	250 [18]	500 [35]	800 [55]	1000 [70]	1200 [85]	1500 [105]	1800 [125]	2000 [140]	2500 [155]	3000 [210]	3500 [245]	4000 [275]	5000 [345]	7250 [500]
MISTING														
Agriculture		✓	✓	✓	✓	✓								
Chicken/Turkey		✓	✓	✓	✓	✓								
Coal Dust Suppression			✓	✓	✓									
Dairy Barn Sanitation		✓	✓	✓	✓	✓								
Equestrian		✓	✓	✓	✓	✓								
Evaporative Cooling				✓	✓	✓	✓	✓	✓	✓				
Greenhouse		✓	✓	✓	✓	✓								
Lumber Conditioning		✓	✓	✓	✓	✓								
Odor Control		✓	✓	✓										
Temperature Control		✓	✓	✓	✓	✓								
Turbine Cooling						✓	✓	✓	✓	✓				
PROCESSING														
Chemical			✓	✓	✓	✓	✓	✓						
Chicken/Turkey Deboning						✓	✓	✓	✓					
Crude Petroleum Transfer		✓	✓	✓	✓									
Ham Deboning						✓	✓	✓						
Liquid CO2		✓	✓	✓	✓	✓	✓	✓	✓					
Saltwater Reverse Osmosis-Desalination		✓	✓	✓	✓	✓								
SPRAYING														
Fire Protection System			✓	✓	✓									
Row Crop	✓	✓	✓	✓										
SURFACE TREATMENTS														
Cedar Siding Restoration							✓	✓	✓					
Exposed Aggregate								✓	✓	✓				
Gypsum Removal									✓	✓				
Label Removal				✓	✓	✓	✓	✓	✓	✓				
Metal Casting Flushing		✓	✓	✓	✓									
Paint Removal							✓	✓	✓	✓	✓	✓	✓	✓
Paint and Solder Removal											✓	✓	✓	✓
Paper/Plastic/Tin Laser Cutting								✓	✓	✓	✓	✓	✓	✓
Plastic Flash Removal									✓	✓	✓	✓	✓	
Phosphatizing		✓	✓	✓	✓									
WATER-JETTING/BLASTING														
Cement Truck, Hopper, Hearth, Floors										✓	✓	✓	✓	✓
Cleaning Sewer Pipe						✓	✓	✓	✓	✓	✓	✓	✓	✓
Drain Line Tubes							✓	✓	✓	✓	✓	✓	✓	✓
Drilling Paraffin/Crude Residues										✓	✓	✓	✓	✓
Graffiti Removal									✓	✓	✓	✓	✓	✓
Mill Scale, Slag Removal												✓	✓	✓
Mixers, Reactors, Evaporators												✓	✓	✓
Oak Debarking									✓	✓	✓	✓	✓	
Pharmaceutical Residue									✓	✓	✓	✓	✓	✓
Presses, Valves, Vessels						✓	✓	✓	✓	✓	✓	✓	✓	✓
Pulp and Paper Residue									✓	✓	✓	✓	✓	✓
Runway Rubber Removal											✓	✓	✓	✓
Ship Hull Rust, Barnacle Removal												✓	✓	✓
Underground Trenching									✓	✓	✓	✓	✓	✓
Wet Sandblasting					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

TRIPLEX PUMPS

All models are supplied with brass head.

Standard versions with p.t.o on right hand side, left side on request.

Other flow / pressure combinations are available on request .

Triplex

TRIPLEX PUMPS

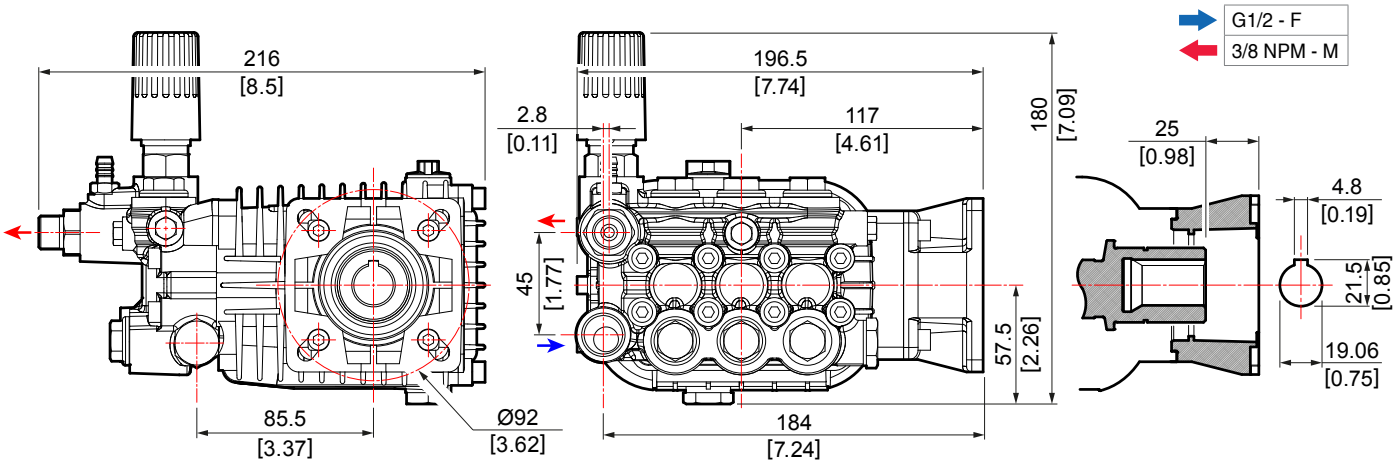
BWD-K

G Ø 3/4”

HOLLOW SHAFT Ø 3/4”

Code	Model	Version	dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6521 0150	**BWD-K 2527 G**		3/4”	3400	9.8	2.5	186	2700	18.6	5.0	3.7	6.0	13.3
6521 0350	**BWD-K 3027 G**		3/4”	3400	11.3	3.0	186	2700	18.6	5.8	4.3	6.0	13.3

SAE J 609 A



TRIPLEX PUMPS

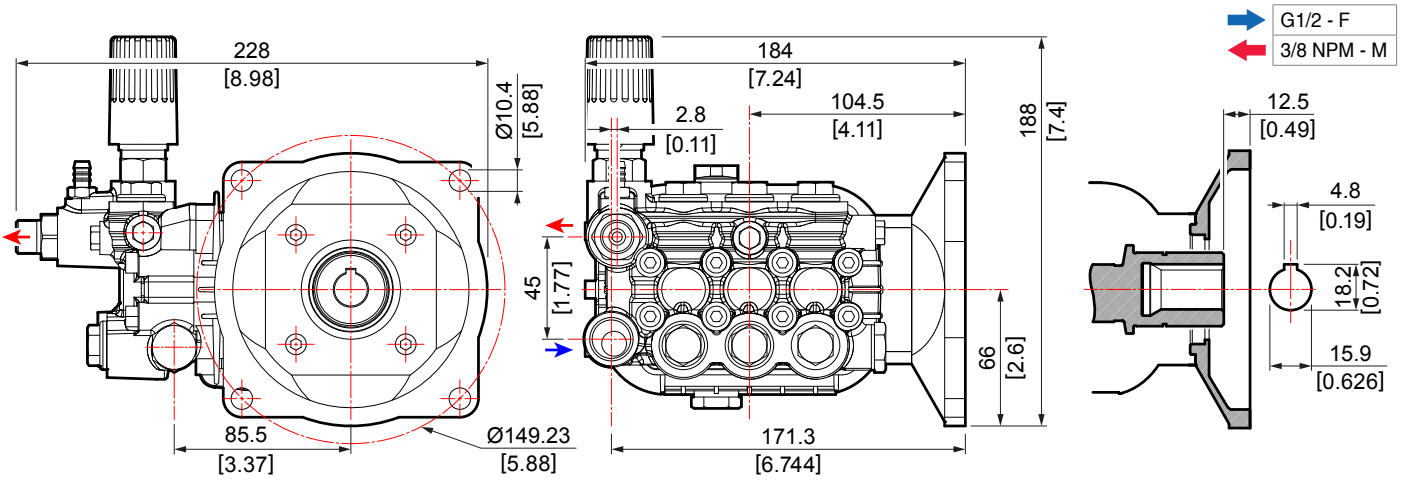
BWD-K

E | Ø 5/8”

HOLLOW SHAFT Ø 5/8”

Code	Model	Version	Ø	RPM									
			dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6521 0450	**BWD-K 2020 E**		5/8”	3400	7.1	1.9	138	2000	13.8	2.7	2.0	6.0	13.3
6521 0251	**BWD-K 3020 E**		5/8”	3400	10.0	2.7	138	2000	13.8	3.7	2.7	6.0	13.3

NEMA 56 C



TRIPLEX PUMPS

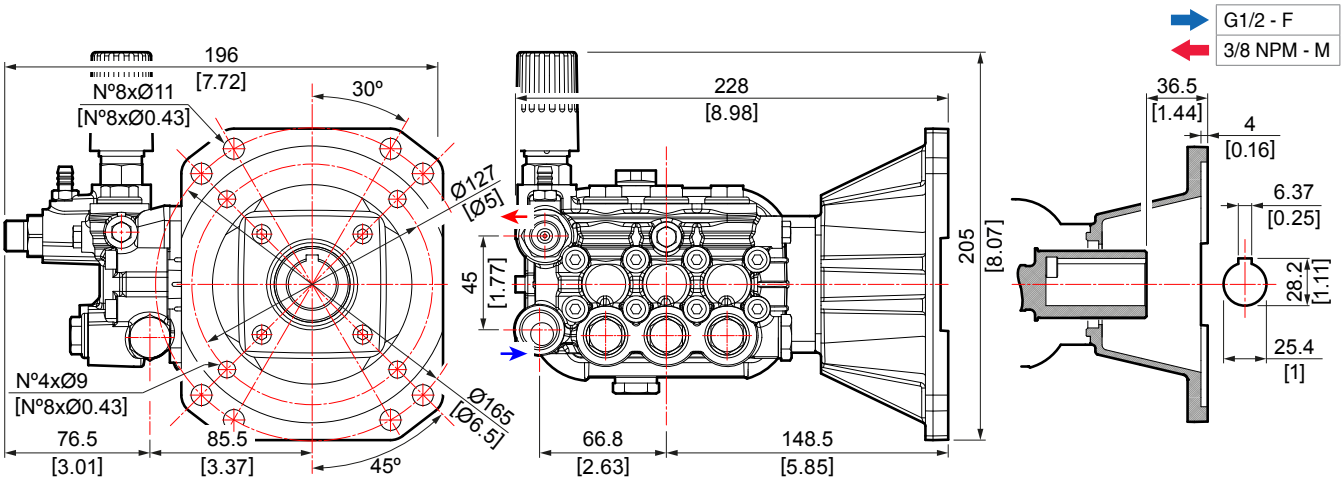
AWD-K

G | Ø1”

HOLLOW SHAFT Ø 1”

Code	Model	Version	Ø	RPM								
			dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6520 0150	**AWD-K 3030 G**		1”	3400	11.3	3.0	207	3000	20.7	6.4	4.7	6.5	14.4
6520 0250	**AWD-K 3530 G**		1”	3400	13.1	3.5	207	3000	20.7	7.4	5.5	6.5	14.4
6520 0350	**AWD-K 4030 G**		1”	3400	15.0	4.0	207	3000	20.7	7.5	5.5	6.5	14.4
6520 0450	**AWD-K 4036 G**		1”	3400	15.0	4.0	248	3600	24.8	10.2	7.5	6.5	14.4

SAE J 609 B



TRIPLEX PUMPS

LW
RPM 1450

LWS
RPM 1750

LWD
RPM 3400

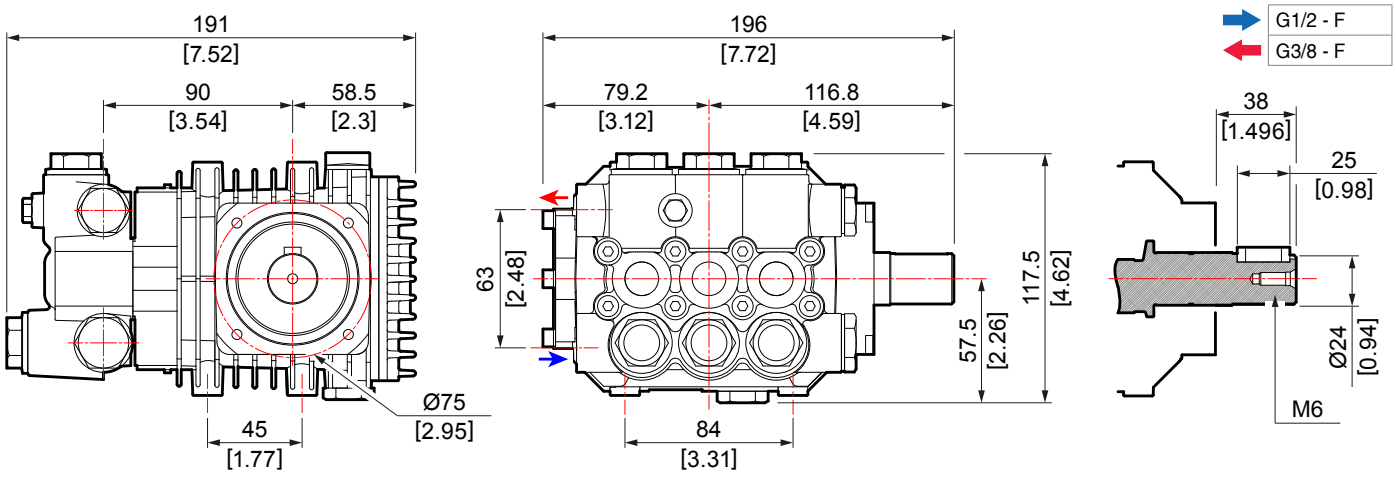
S | Ø24 mm

AVAILABLE ON REQUEST

STAINLESS STEEL HEAD

SOLID SHAFT Ø 24 mm

Code	Model	Version	Ø	RPM								
			dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6300 0502	LW 2020	S	24mm	1450	8.0	2.1	138	2000	13.8	3.0	2.2	6.1	13.4
6300 0303	LW 3020	S	24mm	1450	11.2	3.0	138	2000	13.8	4.0	3.0	6.1	13.4
6300 0700	LW 3025	S	24mm	1450	11.2	3.0	172	2500	17.2	5.0	3.7	6.1	13.4
6300 0800	LW 3525	S	24mm	1450	13.4	3.5	172	2500	17.2	5.5	4.0	6.1	13.4
6301 0101	LWS 2020	S	24mm	1750	8.4	2.2	138	2000	13.8	3.0	2.2	6.1	13.4
6301 0601	LWS 3020	S	24mm	1750	11.9	3.1	138	2000	13.8	4.0	3.0	6.1	13.4
6301 1300	LWS 3025	S	24mm	1750	12.3	3.2	172	2500	17.2	5.0	3.7	6.1	13.4
6301 1208	LWS 3525	S	24mm	1750	13.4	3.5	170	2500	17.0	5.9	4.2	6.1	13.4
6301 1201	LWS 3525	S	24mm	1750	13.6	3.6	172	2500	17.2	5.5	4.0	6.1	13.4
6301 1400	LWS 4020	S	24mm	1750	16.1	4.2	138	2000	13.8	5.5	4.0	6.1	13.4
6303 0507	LWD 3020	S	24mm	3400	11.4	3.0	136	2000	13.6	4.0	3.0	6.1	13.4
6303 0702	LWD 3025	S	24mm	3400	11.4	3.0	170	2500	17.0	5.0	3.7	6.1	13.4
6303 0803	LWD 3522	S	24mm	3400	13.2	3.5	150	2200	15.0	5.0	3.7	6.1	13.4



TRIPLEX PUMPS

LWD

G Ø 3/4”

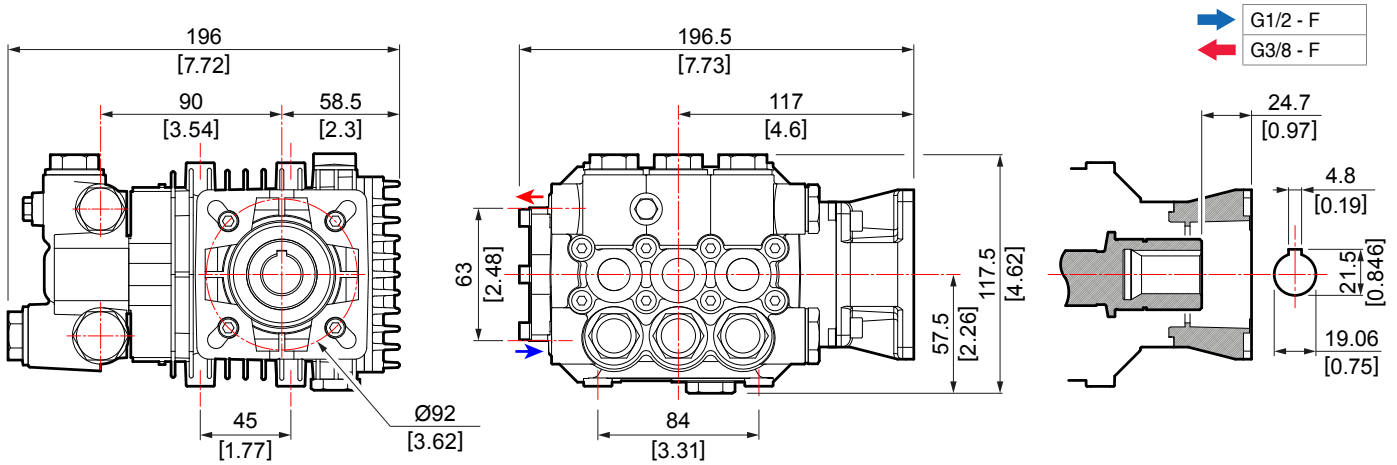
AVAILABLE ON REQUEST

STAINLESS STEEL HEAD

HOLLOW SHAFT Ø 3/4”

Code	Model	Version	Ø	RPM									
			dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6303 0104	**LWD 2020 G**		3/4”	3400	8.2	2.2	138	2000	13.8	3.0	2.2	6.1	13.4
6303 1600	**LWD 2520 G**		3/4”	3400	9.4	2.5	138	2000	13.8	3.6	2.7	5.9	13.0
6303 1700	**LWD 2525 G**		3/4”	3400	9.4	2.5	172	2500	17.2	4.5	3.4	5.9	13.0
6303 0707	**LWD 3027 G**		3/4”	3400	11.5	3.0	184	2700	18.4	4.8	3.5	6.1	13.4
6303 0508	**LWD 3020 G**		3/4”	3400	11.3	3.0	138	2000	13.8	4.0	3.0	5.9	13.0
6303 0701	**LWD 3025 G**		3/4”	3400	11.3	3.0	172	2500	17.2	5.0	3.7	5.9	13.0
6303 0802	**LWD 3522 G**		3/4”	3400	13.0	3.4	152	2200	15.2	5.0	3.7	5.9	13.0

SAE J 609 A



TRIPLEX PUMPS

LWS

RPM 1750

LWD

RPM 3400

E | Ø 5/8”

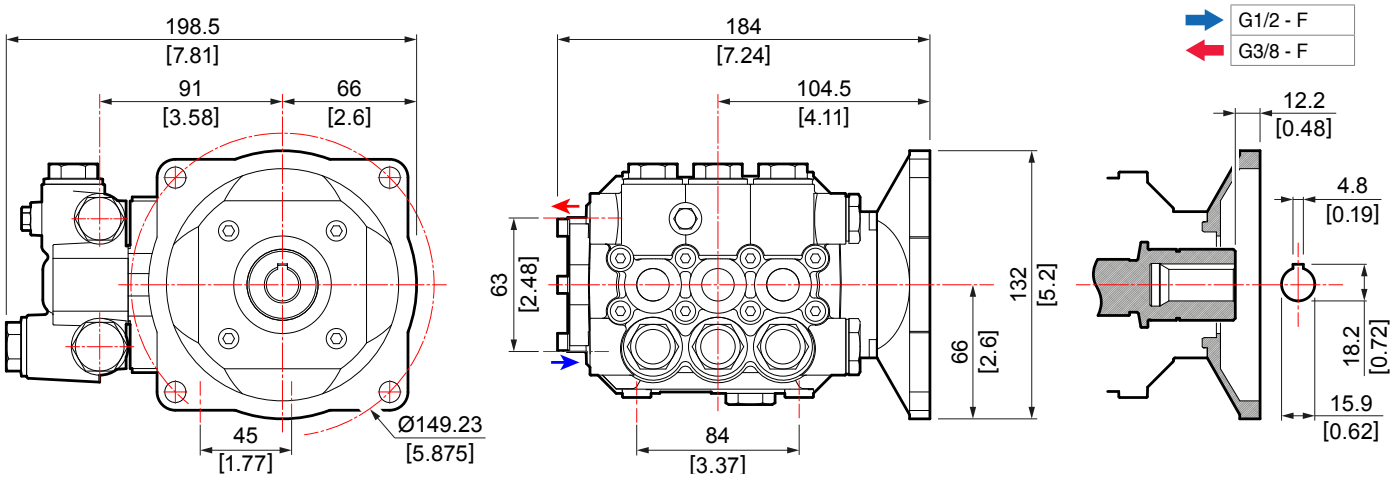
AVAILABLE ON REQUEST

STAINLESS STEEL HEAD

HOLLOW SHAFT Ø 5/8”

Code	Model	Version	Ø	RPM						HP	kW	kg	lb
			dia	rpm	l/min	US gpm	bar	psi	Mpa				
6301 0102	**LWS 2020**	**E**	5/8”	1750	8.4	2.2	138	2000	13.8	3.0	2.2	6.1	13.4
6301 0604	**LWS 3020**	**E**	5/8”	1750	11.9	3.1	138	2000	13.8	4.0	3.0	6.1	13.4
6301 0602	**LWS 3520**	**E**	5/8”	1750	13.4	3.5	138	2000	13.8	5.0	3.7	6.1	13.4
6303 0105	**LWD 2020**	**E**	5/8”	3400	8.2	2.2	138	2000	13.8	3.0	2.2	5.9	13.0
6303 0509	**LWD 3020**	**E**	5/8”	3400	11.3	3.0	138	2000	13.8	4.0	3.0	5.9	13.0
6303 0806	**LWD 3522**	**E**	5/8”	3400	13.0	3.4	152	2200	15.2	5.0	3.7	5.9	13.0
6303 0804	**LWD 3522**	**GE**	3/4”	3400	13.0	3.4	152	2200	13.6	4.9	3.6	6.1	13.4

NEMA 56 C



TRIPLEX PUMPS

LWD-K

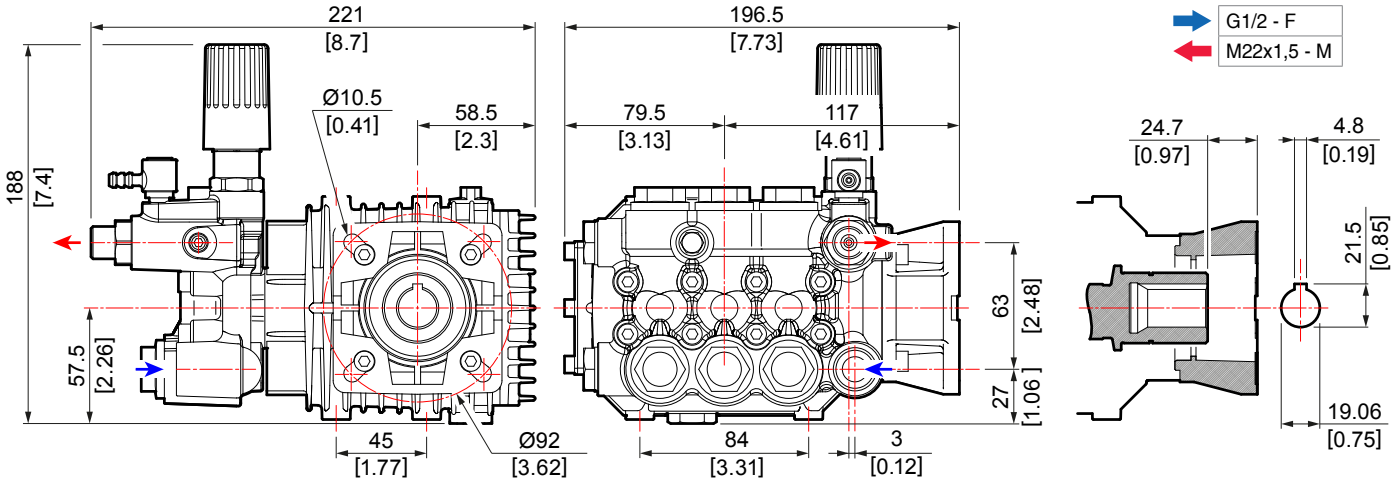
G | Ø 3/4”

HOLLOW SHAFT Ø 3/4”

Code	Model	Version	Ø	RPM								
			dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6303 0157	**LWD-K 2020**	**G**	3/4"	3400	7.9	2.1	136	2000	13.6	3.0	2.2	6.1	13.4
6303 1652	**LWD-K 2520**	**G**	3/4"	3400	9.5	2.5	136	2000	13.6	3.5	2.6	6.1	13.4
6303 1750	**LWD-K 2525**	**G**	3/4"	3400	9.5	2.5	172	2500	18.4	4.5	3.4	6.1	13.4
6303 2100*	**LWD-RF 2527**	**G**	3/4"	3400	9.5	2.5	184	2700	18.4	4.8	3.6	6.1	13.4
6303 0558	**LWD-K 3020**	**G**	3/4"	3400	11.4	3.0	136	2000	13.6	4.0	3.0	6.1	13.4
6303 0754	**LWD-K 3025**	**G**	3/4"	3400	11.4	3.0	170	2500	17.0	5.0	3.7	6.1	13.4

*** Bolt On Unloader**

SAE J 609 A



TRIPLEX PUMPS

LWS-K

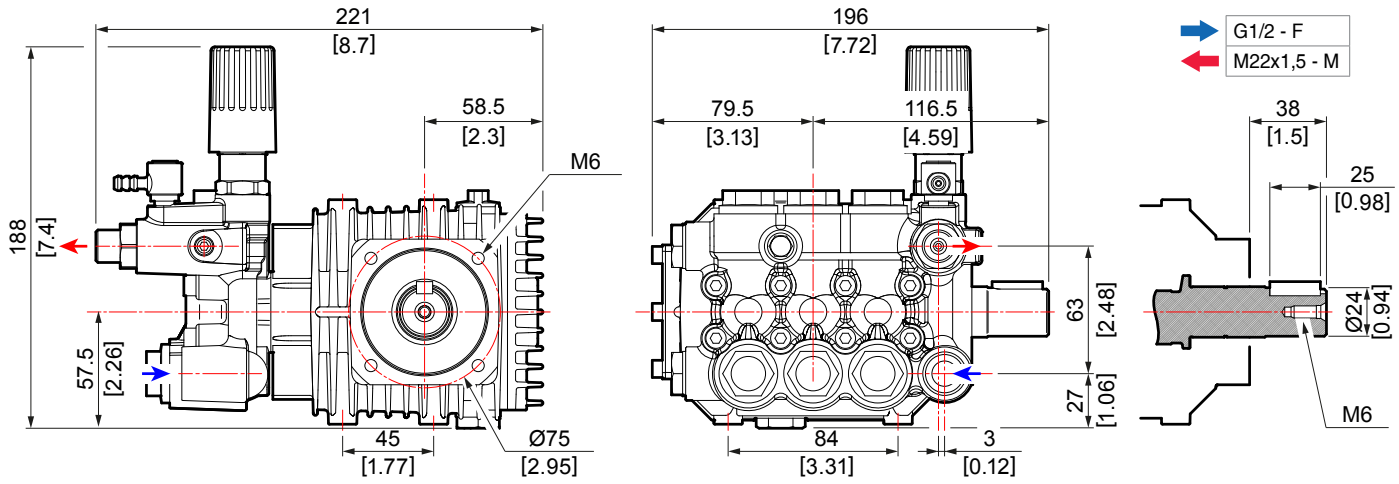
LWD-K

E | Ø 5/8”

HOLLOW SHAFT Ø 5/8”

Code	Model	Version	dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6301 0654	**LWS-K 3020**	**E**	5/8"	1750	11.4	3.0	136	2000	13.6	4.0	3.0	6.1	13.4
6303 0156	**LWD-K 2020**	**E**	5/8"	3400	7.9	2.1	136	2000	13.6	3.0	2.2	6.1	13.4

NEMA 56 C



TRIPLEX PUMPS

EWD-K

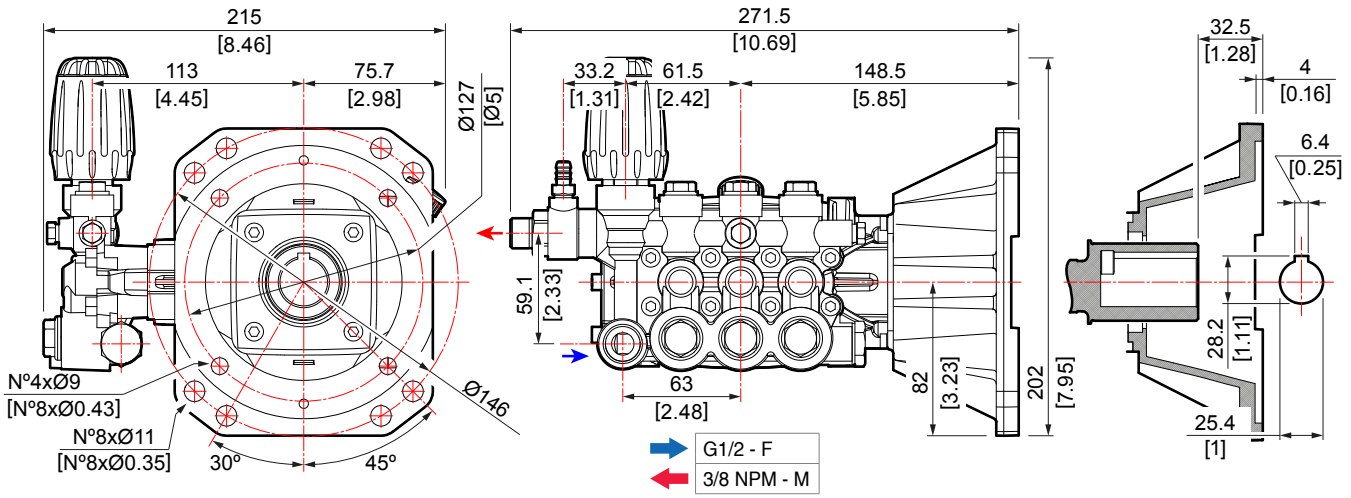
EWD

G Ø1”

HOLLOW SHAFT Ø 1”

Code	Model	Version	Ø	RPM								
			dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6311 0150	**EWD-K 4040**	**G**	1”	3400	15.0	4.0	276	4000	27.6	11.0	8.2	6.6	14.5
6311 0100	**EWD 4040**	**G**	1”	3400	15.0	4.0	276	4000	27.6	11.0	8.2	6.6	14.5

SAE J 609 B



TRIPLEX PUMPS

ZWD

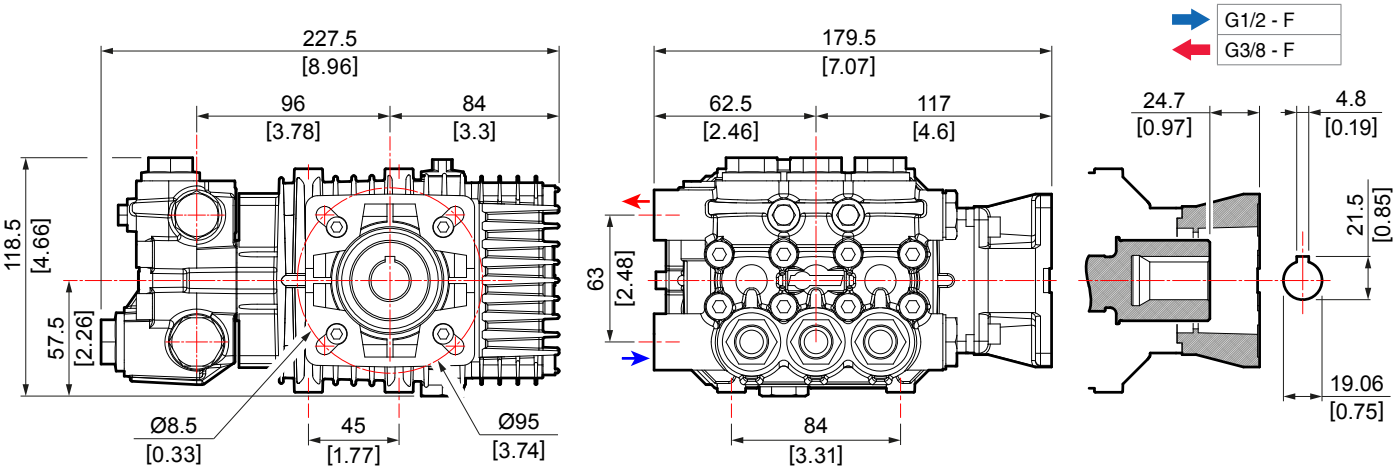
RPM 3400

G | Ø 3/4”

HOLLOW SHAFT Ø 3/4”

Code	Model	Version	Ø	RPM								
			dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6305 1900	**ZWD 2535**	**G**	3/4”	3400	9.4	2.5	240	3500	24.0	5.8	4.5	7.9	17.4
6305 0104	**ZWD 3030**	**G**	3/4"	3400	11.5	3.0	221	3200	22.1	6.4	4.8	8.0	17.5

SAE J 609 A



TRIPLEX PUMPS

ZWD

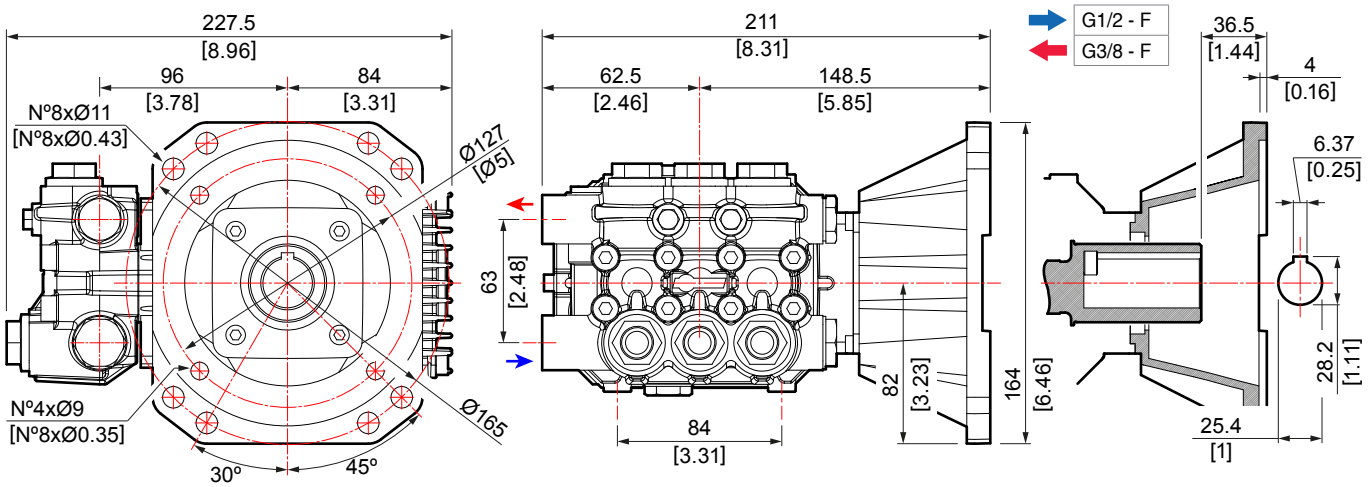
RPM 3400

G | Ø1”

HOLLOW SHAFT Ø 1”

Code	Model	Version	Ø	RPM								
			dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6305 1600	**ZWD 3035**	**G**	1”	3400	11.0	3.0	240	3500	24.0	7.0	5.1	7.9	17.4
6305 1100	**ZWD 3040**	**G**	1”	3400	11.0	3.0	207	3000	20.7	7.9	4.8	7.9	17.4
6305 1700	**ZWD 3535**	**G**	1”	3400	13.0	3.4	240	3500	24.0	7.6	5.6	7.9	17.4
6305 1000	**ZWD 3540**	**G**	1”	3400	13.0	3.4	276	4000	27.6	9.5	7.0	7.9	17.4
6305 1800	**ZWD 4035**	**G**	1”	3400	15.0	4.0	240	3500	24.0	8.7	6.4	7.9	17.4
6305 0900	**ZWD 4040**	**G**	1”	3400	15.0	4.0	276	4000	27.6	11.0	8.2	7.9	17.4
6305 2100	**ZWD 4530**	**G**	1”	3400	17.2	4.6	207	3000	20.7	9.8	7.2	7.9	17.4
6305 2400	**ZWD 5030**	**G**	1”	3400	19.2	5.1	207	3000	20.7	10.8	8.0	7.9	17.4
6305 2500	**ZWD 5530**	**G**	1”	3400	20.8	5.5	207	3000	20.7	11.6	8.7	7.9	17.4

SAE J 609 B



TRIPLEX PUMPS

ZWD-K

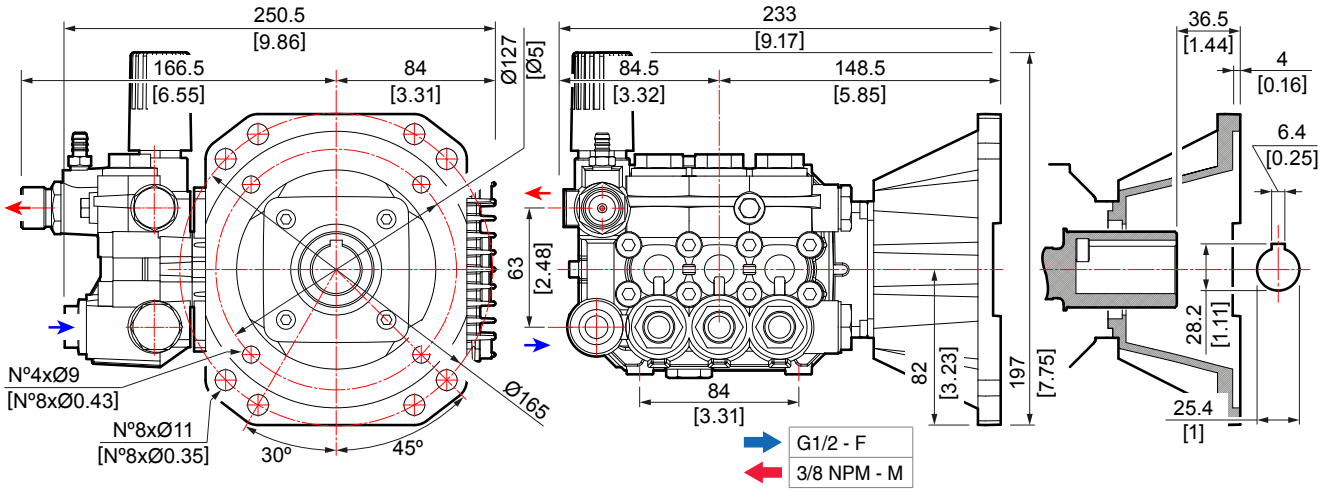
G Ø1”

HOLLOW SHAFT Ø 1”

Code	Model	Version	dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6305 1650	**ZWD-K 3035**	**G**	1”	3400	11.0	3.0	240	3500	24.0	7.0	5.1	7.9	17.4
6305 1750	**ZWD-K 3535**	**G**	1”	3400	13.0	3.4	240	3500	24.0	7.6	5.6	7.9	17.4
6305 1052	**ZWD-K 3540**	**G**	1”	3400	13.0	3.5	276	4000	27.6	9.5	7.0	7.9	17.4
6305 1850	**ZWD-K 4035**	**G**	1”	3400	15.0	4.0	240	3500	24.0	8.7	6.4	7.9	17.4
6305 1503*	**ZWD-K 4040**	**G**	1”	3400	15.0	4.0	276	4000	27.6	11.4	8.5	10.0	22.0

* The model is equipped with **EASY-START** device.

SAE J 609 B



TRIPLEX PUMPS

FW2

RPM 1450

FWS2

RPM 1750

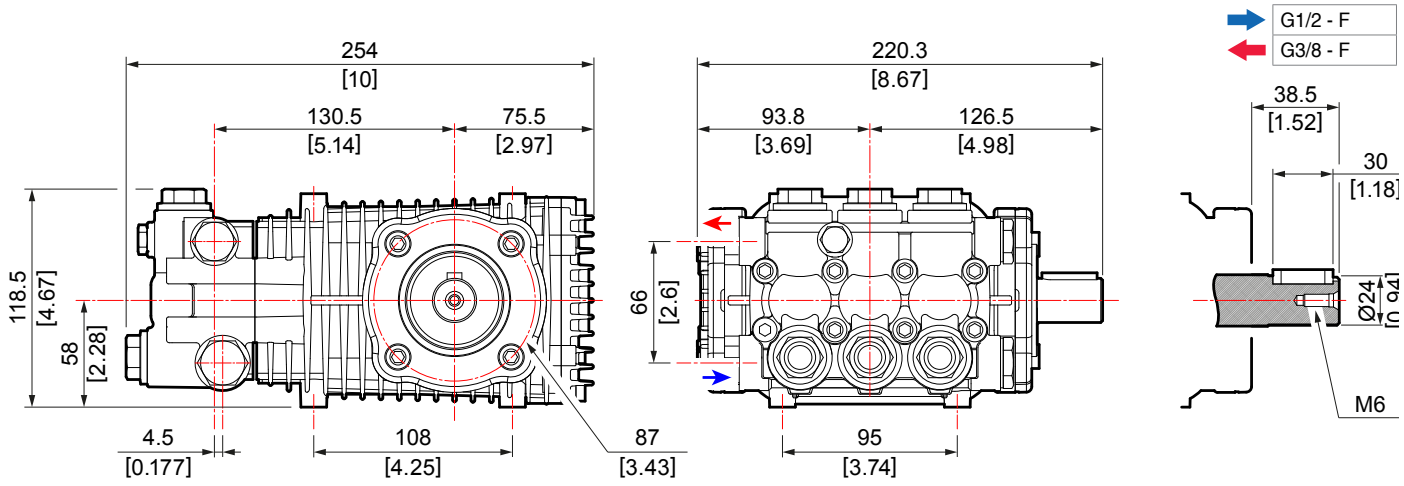
S | Ø24 mm

AVAILABLE ON REQUEST

NICKEL PLATED HEAD

SOLID SHAFT Ø 24 mm

Code	Model	Version	Ø	RPM								
			dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6410 0200	FW2 3530	S	24mm	1450	13.0	3.4	207	3000	20.7	7.0	5.1	8.8	19.4
6410 0900	FW2 3540	S	24mm	1450	13.2	3.5	276	4000	27.6	11.0	8.2	8.8	19.4
6410 0100	FW2 4030	S	24mm	1450	15.2	4.0	207	3000	20.7	7.5	5.5	8.8	19.4
6410 0700	FW2 4040	S	24mm	1450	15.0	4.0	278	4000	27.8	11.0	8.2	8.8	19.4
6410 0800	FW2 4540	S	24mm	1450	16.5	4.4	276	4000	27.6	12.2	9.0	8.8	19.4
6410 0300	FW2 5030	S	24mm	1450	18.8	5.0	207	3000	20.7	10.0	7.5	8.8	19.4
6410 0400	FW2 5522	S	24mm	1450	21.0	5.6	152	2200	15.2	7.5	5.5	8.8	19.4
6410 0500	FW2 5530	S	24mm	1450	21.0	5.6	207	3000	20.7	10.5	7.7	8.8	19.4
6411 0100	FWS2 3530	S	24mm	1750	13.7	3.6	207	3000	20.7	7.0	5.1	8.8	19.4
6411 0200	FWS2 4030	S	24mm	1750	15.7	4.2	207	3000	20.7	7.5	5.5	8.8	19.4
6411 1100	FWS2 4040	S	24mm	1750	15.7	4.2	276	4000	27.6	11.0	8.2	8.8	19.4
6411 0300	FWS2 4530	S	24mm	1750	17.5	4.6	207	3000	20.7	10.0	7.5	8.8	19.4
6411 1200	FWS2 5040	S	24mm	1750	20.0	5.3	276	4000	27.6	14.0	10.5	8.8	19.4
6411 0600	FWS2 5525	S	24mm	1750	21.6	5.7	172	2500	17.2	10.0	7.5	8.8	19.4
6411 0700	FWS2 5530	S	24mm	1750	21.0	5.5	207	3000	20.7	10.5	7.7	8.8	19.4
6411 1400	FWS2 6030	S	24mm	1750	22.4	5.9	207	3000	20.7	11.9	8.9	8.8	19.4



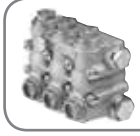
TRIPLEX PUMPS

FWD2

3400 RPM

G | Ø1”

AVAILABLE ON REQUEST

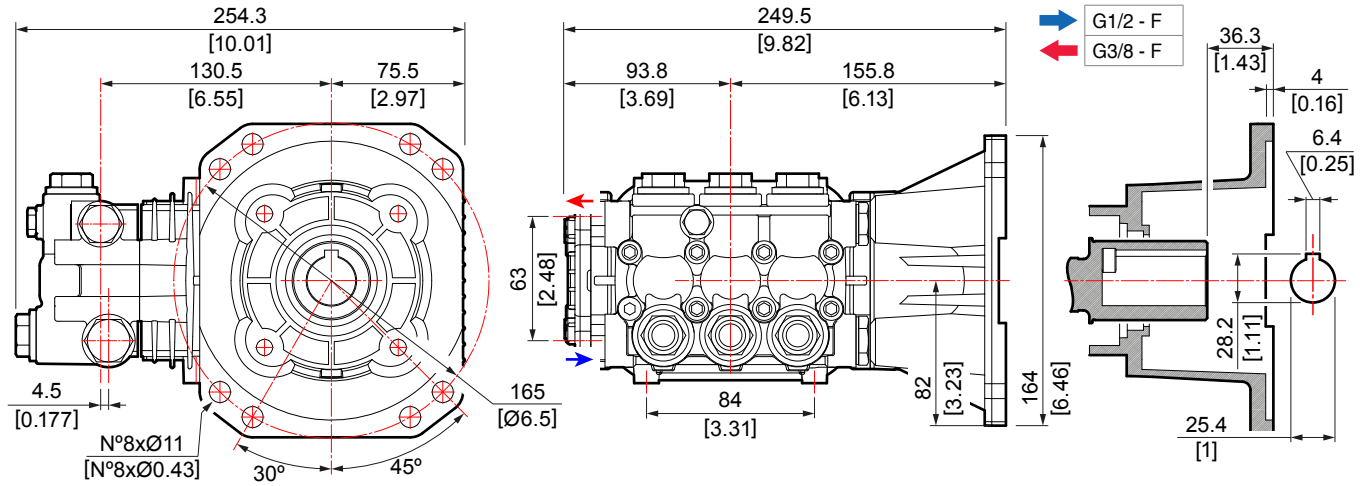


NICKEL PLATED HEAD

HOLLOW SHAFT Ø 1”

Code	Model	Version	Ø	RPM								
			dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6412 0101	**FWD2 4530 G**		1”	3400	16.5	4.3	207	3000	20.7	9.5	7.1	9.0	19.8
6412 0300	**FWD2 4540 G**		1”	3400	16.5	4.3	276	4000	27.6	12.6	9.5	9.0	19.8
6412 0201	**FWD2 5030 G**		1”	3400	19.2	5.1	207	3000	20.7	11.0	8.3	9.0	19.8
6412 0400	**FWD2 5040 G**		1”	3400	19.2	5.1	276	4000	27.6	14.7	11.0	9.0	19.8
6412 0500	**FWD2 5540 G**		1”	3400	20.9	5.5	276	4000	27.6	15.6	11.6	9.0	19.8

SAE J 609 B



TRIPLEX PUMPS

FWS2

RPM 1750

FWD2

RPM 3400

E | Ø1”1/8

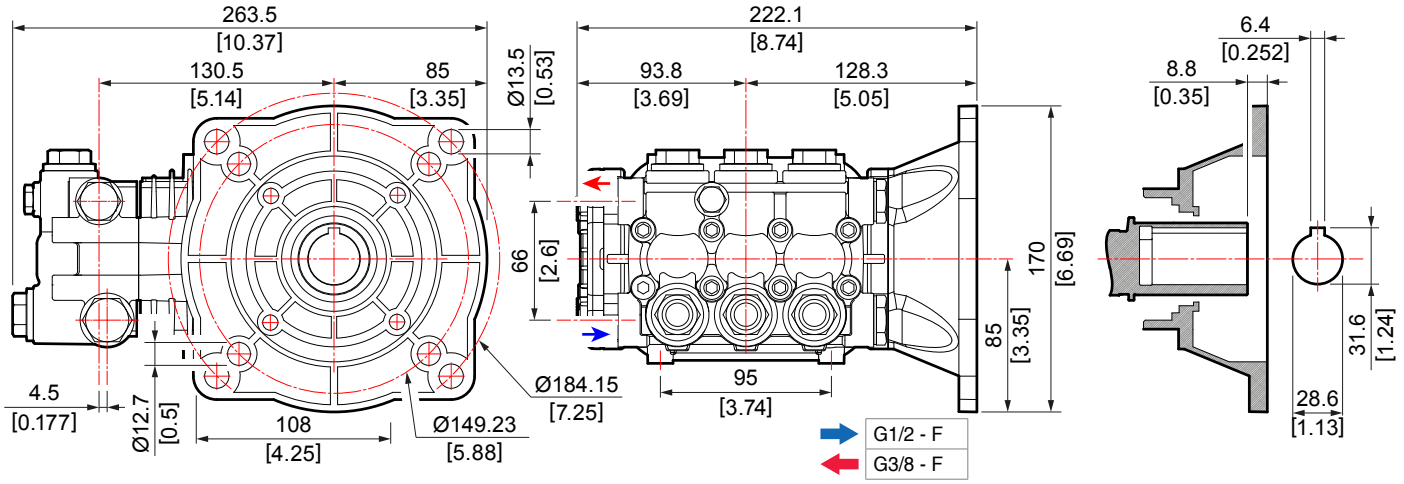
AVAILABLE ON REQUEST

NICKEL PLATED HEAD

HOLLOW SHAFT Ø 1”1/8

Code	Model	Version	dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6411 0900	**FWS2 3030**	**E**	1 1/8”	1750	10.9	2.9	207	3000	20.7	5.8	4.2	8.9	19.6
6411 0101	**FWS2 3530**	**E**	1 1/8”	1750	13.7	3.6	207	3000	20.7	7.0	5.1	8.9	19.6
6411 0201	**FWS2 4030**	**E**	1 1/8”	1750	15.7	4.2	207	3000	20.7	7.5	5.5	8.9	19.6
6411 0301	**FWS2 4530**	**E**	1 1/8”	1750	17.5	4.6	207	3000	20.7	10.0	7.5	8.9	19.6
6411 0400	**FWS2 5030**	**E**	1 1/8”	1750	18.8	5.0	207	3000	20.7	10.0	7.5	8.9	19.6
6411 0701	**FWS2 5530**	**E**	1 1/8”	1750	21	5.5	207	3000	20.7	10.5	7.7	8.9	19.6
6412 0100	**FWD2 4530**	**E**	1 1/8”	3400	16.5	4.3	207	3000	20.7	9.5	7.1	9.0	19.8
6412 0301	**FWD2 4540**	**E**	1 1/8”	3400	16.5	4.3	276	4000	27.6	12.6	9.5	9.0	19.8
6412 0202	**FWD2 5030**	**E**	1 1/8”	3400	19.2	5.1	207	3000	20.7	11.0	8.3	9.0	19.8
6412 0401	**FWD2 5040**	**E**	1 1/8”	3400	19.2	5.1	276	4000	27.6	14.7	11.0	9.0	19.8

NEMA 182-184 TC



TRIPLEX PUMPS

RW

RPM 1450

S | Ø24 mm

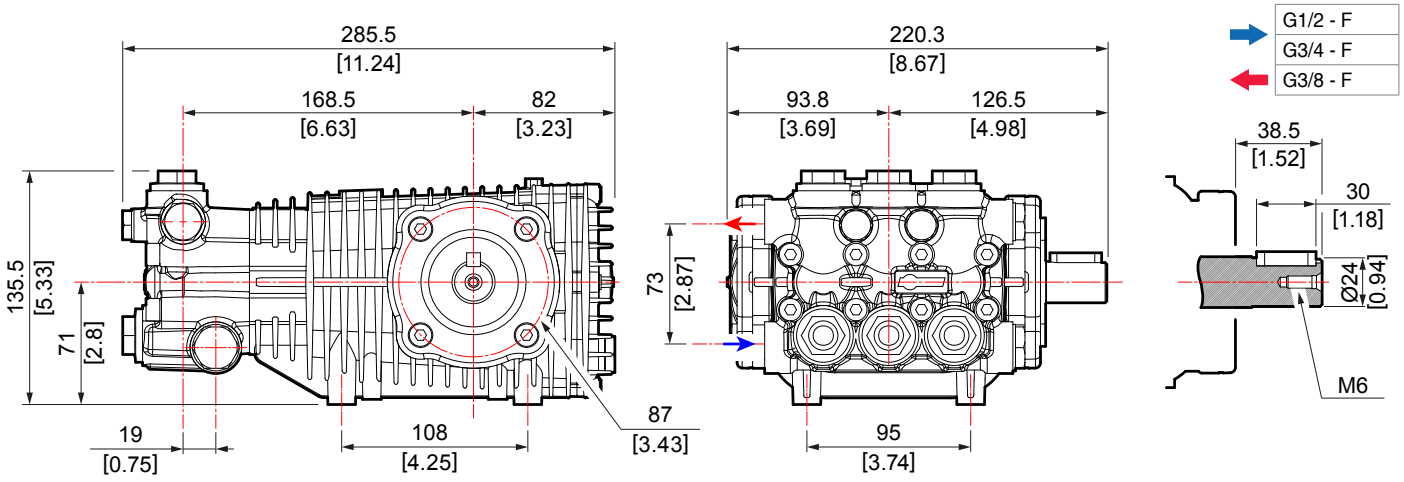
PREMIUM

AVAILABLE ON REQUEST

NICKEL PLATED HEAD

SOLID SHAFT Ø 24 mm

Code	Model	Version	Ø	RPM						HP	kW	kg	lb
			dia	rpm	l/min	US gpm	bar	psi	Mpa				
6517 1001	**RW 3540**	**S**	24mm	1450	12.6	3.3	276	4000	27.6	8.7	6.4	11.2	24.6
6517 0100	**RW 4030**	**S**	24mm	1450	15.6	4.1	207	3000	20.7	8.1	5.9	11.2	24.6
6517 1100	**RW 4035**	**S**	24 mm	1450	15.1	4.0	241	3500	24.1	9.4	7.0	12.3	27.0
6517 1400	**RW 4040**	**S**	24mm	1450	15.6	4.0	276	4000	27.6	10.6	7.8	11.2	24.6
6517 1101	**RW 4540**	**S**	24mm	1450	16.8	4.4	276	4000	27.6	11.6	8.6	11.2	24.6
6517 0600	**RW 5030**	**S**	24mm	1450	18.8	5.0	207	3000	20.7	9.8	7.2	11.2	24.6
6517 1201	**RW 5040**	**S**	24mm	1450	19.9	5.0	276	4000	27.6	13.1	9.6	11.2	24.6
6517 0800	**RW 5530**	**S**	24mm	1450	20.8	5.1	207	3000	20.7	10.8	7.9	11.2	24.6
6517 1300	**RW 5535**	**S**	24mm	1450	20.1	5.3	241	3500	24.1	12.6	9.3	11.2	24.6
6517 0900	**RW 6030**	**S**	24mm	1450	23.4	6.2	207	3000	20.7	12.1	8.9	11.2	24.6
6517 1700	**RW 6522**	**S**	24mm	1450	24.9	6.6	152	2200	15.2	9.6	7.1	11.2	24.6
6517 1800	**RW 7522**	**S**	24mm	1450	27.7	7.3	152	2200	15.2	10.8	8.0	11.2	24.6
6517 1900	**RW 8018**	**S**	24mm	1450	29.7	7.9	124	1800	12.4	11.9	8.9	11.2	24.6
6517 2000	**RW 8515**	**S**	24mm	1450	32.8	8.7	124	1800	12.4	11.9	8.9	11.2	24.6
6517 2100	**RW 9518**	**S**	24mm	1450	36.9	9.8	124	1800	12.4	11.9	8.9	11.2	24.6



TRIPLEX PUMPS

RWS

S | Ø24 mm

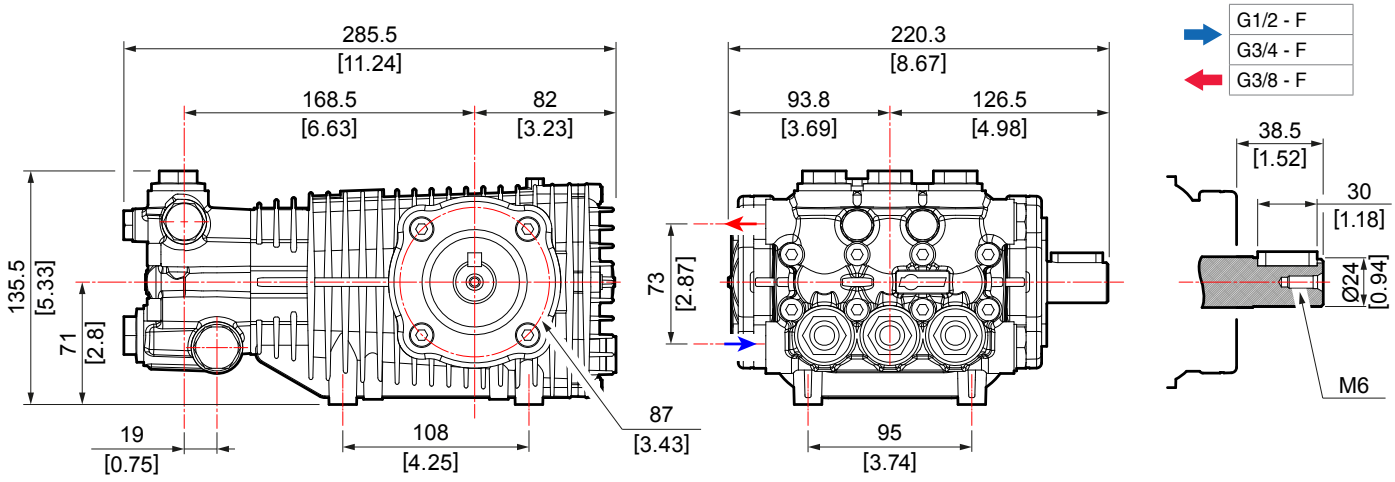
PREMIUM

AVAILABLE ON REQUEST

NICKEL PLATED HEAD

SOLID SHAFT Ø 24 mm

Code	Model	Version	dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6518 0100	RWS 3030	S	24 mm	1750	11.4	3.0	207	3000	20.7	6.0	4.4	12.3	27.0
6518 1000	RWS 3035	S	24 mm	1750	11.4	3.0	241	3500	24.1	7.0	5.2	12.3	27.0
6518 0200	RWS 3530	S	24 mm	1750	13.6	3.6	207	3000	20.7	7.2	5.3	12.3	27.0
6518 1101	RWS 3540	S	24mm	1750	13.6	3.6	276	4000	27.6	9.5	7.0	11.2	24.6
6518 0400	RWS 4030	S	24mm	1750	15.0	4.0	207	3000	20.7	8.1	6.0	11.2	24.6
6518 1201	RWS 4040	S	24mm	1750	15.1	4.0	276	4000	27.6	10.5	7.8	11.2	24.6
6518 0500	RWS 4530	S	24 mm	1750	16.7	4.4	207	3000	20.7	8.8	6.5	12.3	27.0
6518 1301	RWS 4540	S	24mm	1750	18.2	4.8	276	4000	27.6	12.7	9.4	11.2	24.6
6518 0600	RWS 5030	S	24mm	1750	18.6	4.9	207	3000	20.7	9.8	7.2	11.2	24.6
6518 1401	RWS 5040	S	24mm	1750	20.1	5.3	276	4000	27.6	14.1	10.3	11.2	24.6
6518 0700	RWS 5530	S	24mm	1750	21.4	5.7	207	3000	20.7	11.2	8.3	11.2	24.6
6518 1500	RWS 5535	S	24mm	1750	21.4	5.7	241	3500	24.1	13.1	9.6	11.2	24.6
6518 0800	RWS 6020	S	24 mm	1750	22.3	5.9	138	2000	13.8	7.9	5.9	12.3	27.0
6518 0801	RWS 6040	S	24mm	1750	22.6	6.0	276	4000	27.6	15.8	11.6	11.2	24.6
6518 0900	RWS 6520	S	24mm	1750	24.8	6.6	138	2000	13.8	8.7	6.4	11.2	24.6
6518 1600	RWS 7020	S	24mm	1750	26.7	7.1	138	2000	13.8	9.8	7.2	11.2	24.6
6518 2000	RWS 8022	S	24mm	1750	30.0	7.9	152	2200	15.2	11.5	8.6	11.9	26.2
6518 2100	RWS 8522	S	24mm	1750	33.0	8.7	152	2200	15.2	13.0	9.7	11.9	26.2
6518 2200	RWS 9518	S	24mm	1750	35.1	9.3	152	2200	15.2	13.5	10.1	11.9	26.2
6518 2300	RWS 10018	S	24mm	1750	38.0	10.1	124	1800	12.4	12.2	9.1	11.9	26.2



TRIPLEX PUMPS

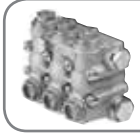
RWS

1750

E | Ø1"1/8

PREMIUM

AVAILABLE ON REQUEST

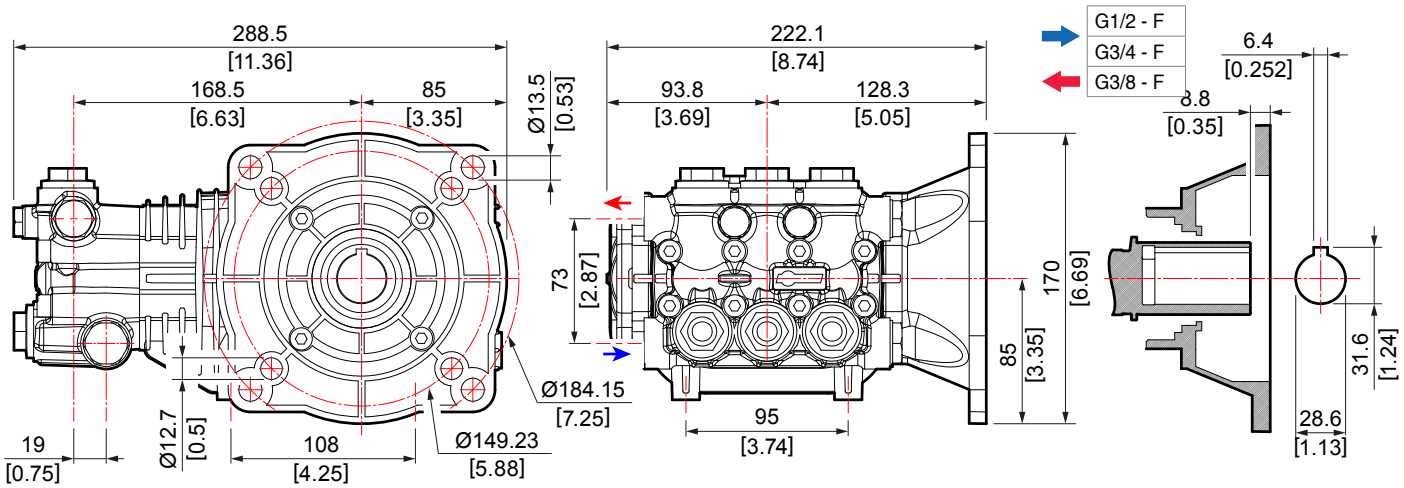


NICKEL PLATED HEAD

HOLLOW SHAFT Ø 1"1/8

Code	Model	Version	dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6518 1700	**RWS 3040 E**		1 1/8"	1750	11.3	3.0	276	4000	27.6	7.9	5.8	11.2	24.6
6518 0201	**RWS 3530 E**		1 1/8"	1750	13.6	3.6	207	3000	20.7	7.2	5.3	11.2	24.6
6518 0401	**RWS 4030 E**		1 1/8"	1750	15.0	4.0	207	3000	20.7	8.1	6.0	11.2	24.6
6518 1202	**RWS 4040 E**		1 1/8"	1750	15.1	4.0	276	4000	27.6	10.5	7.8	11.2	24.6
6518 0501	**RWS 4530 E**		1 1/8"	1750	16.7	4.4	207	3000	20.7	8.8	6.5	11.2	24.6
6518 0601	**RWS 5030 E**		1 1/8"	1750	18.6	4.9	207	3000	20.7	9.8	7.2	11.2	24.6
6518 1402	**RWS 5035 E**		1 1/8"	1750	18.6	4.9	241	3500	24.1	6.0	4.4	11.2	24.6
6518 0701	**RWS 5530 E**		1 1/8"	1750	21.4	5.7	207	3000	20.7	11.2	8.3	11.2	24.6

NEMA 182-184 TC



TRIPLEX PUMPS

SW

RPM 1450

SWS

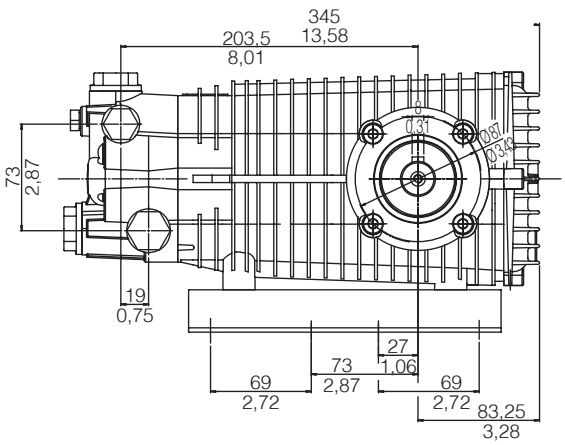
RPM 1750

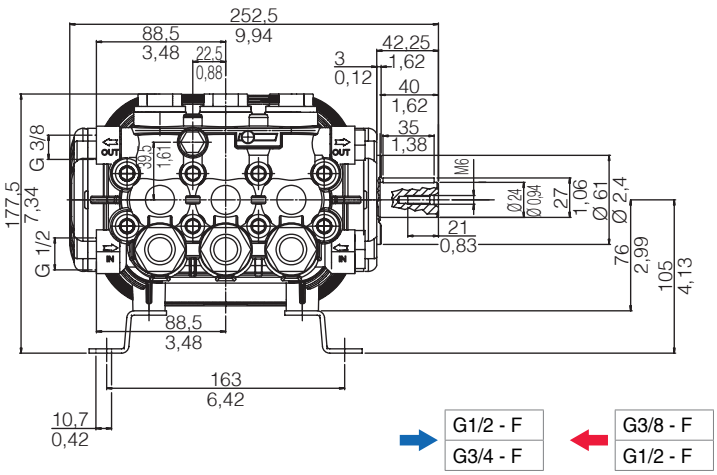
S | Ø24 mm

PREMIUM

SOLID SHAFT Ø 24 mm

Code	Model	Version	dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6515 0100	**SW 4040**	**S**	24mm	1450	15.1	4.0	276	4000	27.6	11.0	8.2	18.2	40.0
6515 0200	**SW 5540**	**S**	24mm	1450	20.8	5.5	276	4000	27.6	14.5	10.8	18.2	40.0
6516 0100	**SWS 4040**	**S**	24mm	1750	15.1	4.0	276	4000	27.6	11.0	8.2	18.2	40.0
6516 0200	**SWS 5025**	**S**	24mm	1750	18.9	5.0	172	2500	17.2	7.5	5.5	18.2	40.0





TRIPLEX PUMPS

TWN
RPM 1000

TW
RPM 1450

TWS
RPM 1750

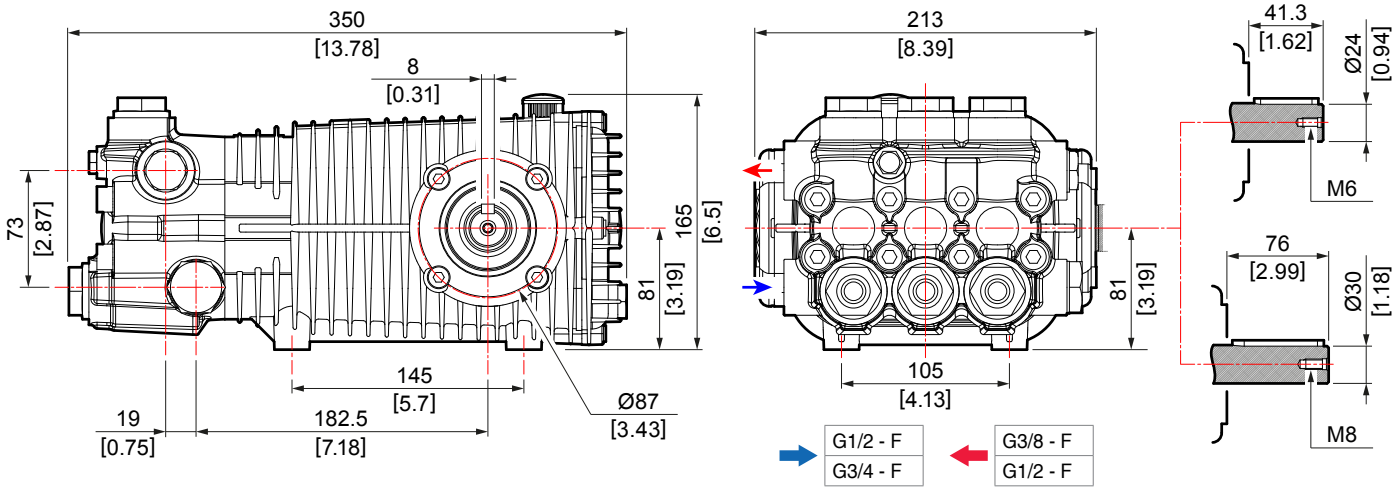
S | Ø24 mm Ø30 mm

PREMIUM

SOLID SHAFT Ø 24 mm / Ø 30 mm

Code	Model	Version	dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6512 0100	**TWN 6036**	**S**	24mm	1000	22.7	6.0	248	3600	24.8	14.0	10.3	20.0	44.0
6512 0200	**TWN 7025**	**S**	24 mm	1000	26.6	7.0	172	2500	17.2	11.5	8.6	20.0	44.0
6512 0300	**TWN 8025**	**S**	24mm	1000	30.0	8.0	172	2500	17.2	12.5	9.3	20.0	44.0
6513 0400	**TW 4550**	**S**	24mm	1450	17.8	4.7	345	5000	34.5	15.5	11.5	20.0	44.0
6513 1300	**TW 5050**	**S**	24mm	1450	20.0	5.2	345	5000	34.5	17.5	13.0	20.0	44.0
6513 0300	**TW 5550**	**S**	24mm	1450	22.0	5.8	345	5000	34.5	19.0	14.2	20.0	44.0
6513 0700	**TW 7036**	**S**	24mm	1450	26.6	7.0	248	3600	24.8	16.5	12.4	20.0	44.0
6513 4000	**TW 8036**	**S**	24 mm	1450	30.3	8.0	248	3600	24.8	18.6	13.9	20.0	44.0
6513 1400	**TW 8030**	**S**	24mm	1450	32.9	8.7	207	3000	20.7	17.0	12.7	20.0	44.0
6513 0900	**TW 8036**	**S**	24mm	1450	32.6	8.6	248	3600	24.8	20.5	15.3	20.0	44.0
6513 1700	**TW 8040**	**S**	30mm	1450	32.6	8.6	276	4000	27.6	23.0	16.9	20.0	44.0
6513 1000	**TW 10025**	**S**	24mm	1450	38.0	10.0	172	2500	17.2	16.5	12.5	20.0	44.0
6513 1200	**TW 11025**	**S**	24mm	1450	42.5	11.0	172	2500	17.2	18.5	13.7	20.0	44.0
6513 1212	**TW 11030**	**S**	24 mm	1450	41.6	11.0	207	3000	20.7	22.1	16.5	20.0	44.0
6513 2400	**TW 13022**	**S**	24mm	1450	48.5	12.8	152	2200	15.2	18.4	13.5	20.0	44.0
6513 2600	**TW 14022**	**S**	24mm	1450	53.5	14.1	152	2200	15.2	20.3	15.0	20.0	44.0
6514 1000	**TWS 5050**	**S**	24mm	1750	20.0	5.3	345	5000	34.5	17.5	13.1	20.0	44.0
6514 0100	**TWS 5550**	**S**	24mm	1750	21.2	5.6	345	5000	34.5	19.0	14.0	20.0	44.0
6514 0101*	**TWS 5550**	**S**	24 mm	1750	21.2	5.6	345	5000	34.5	19.0	14.0	20.0	44.0
6514 0500	**TWS 7040**	**S**	24mm	1750	26.3	7.0	276	4000	27.6	18.5	16.6	20.0	44.0
6514 0600	**TWS 8035**	**S**	24mm	1750	31.5	8.3	241	3500	24.1	19.5	14.6	20.0	44.0
6514 0601*	**TWS 8035**	**S**	24 mm	1750	31.5	8.3	241	3500	24.1	19.5	14.6	20.0	44.0
6514 0700	**TWS 9030**	**S**	24mm	1750	35.0	9.3	207	3000	20.7	19.0	14.0	20.0	44.0
6514 1100	**TWS 10030**	**S**	24mm	1750	40.5	10.7	207	3000	20.7	20.0	15.0	20.0	44.0
6514 0900	**TWS 13020**	**S**	24mm	1750	50.5	13.0	138	2000	13.8	12.2	9.0	20.0	44.0

*** Left Handed**



TRIPLEX PUMPS

TW 500

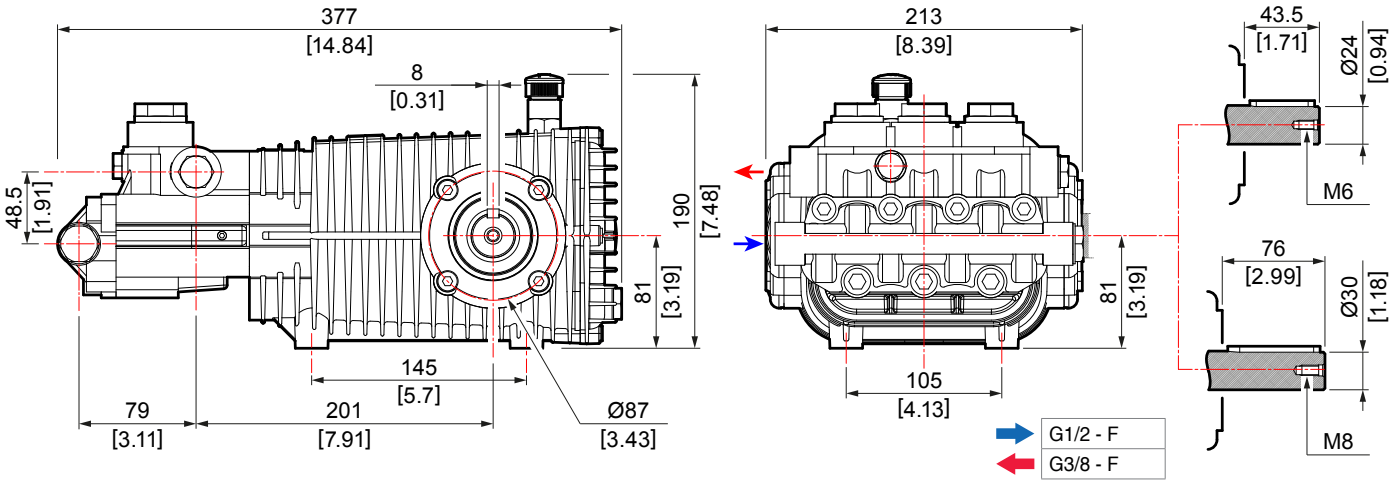
TWS 500

S | Ø24 mm Ø30 mm

PREMIUM

SOLID SHAFT Ø 24 mm / Ø 30 mm

Code	Model	Version	dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6513 2000	**TW 3570**	**S**	24mm	1450	13.0	3.4	503	7300	50.3	16.5	12.1	23.0	50.7
6513 1801	**TW 4070**	**S**	24mm	1450	14.8	3.9	503	7300	50.3	18.8	13.8	23.0	50.7
6513 1800	**TW 4070**	**S**	30mm	1450	15.2	4.0	503	7300	50.3	19.3	14.2	23.0	50.7
6513 2100	**TW 4570**	**S**	30mm	1450	16.2	4.3	503	7300	50.3	20.2	14.9	23.0	50.7
6513 1900	**TW 5070**	**S**	30mm	1450	19.9	5.3	503	7300	50.3	25.2	18.6	23.0	50.7
6513 1500	**TW 5570**	**S**	30mm	1450	22.0	5.8	503	7300	50.3	27.9	20.5	23.0	50.7
6514 1200	**TWS 4070**	**S**	24mm	1750	15.7	4.1	503	7300	50.3	19.3	14.6	23.0	50.7
6514 1300	**TWS 4570**	**S**	30mm	1750	17.5	4.6	503	7300	50.3	22.1	16.3	23.0	50.7
6514 1400	**TWS 5070**	**S**	30mm	1750	18.4	4.9	503	7300	50.3	23.2	17.1	23.0	50.7
6514 1500	**TWS 6070**	**S**	30mm	1750	22.5	6.0	503	7300	50.3	28.5	21.0	23.0	50.7
6514 1600	**TWS 7070**	**S**	30mm	1750	26.7	7.0	503	7300	50.3	33.7	24.7	23.0	50.7



TRIPLEX PUMPS

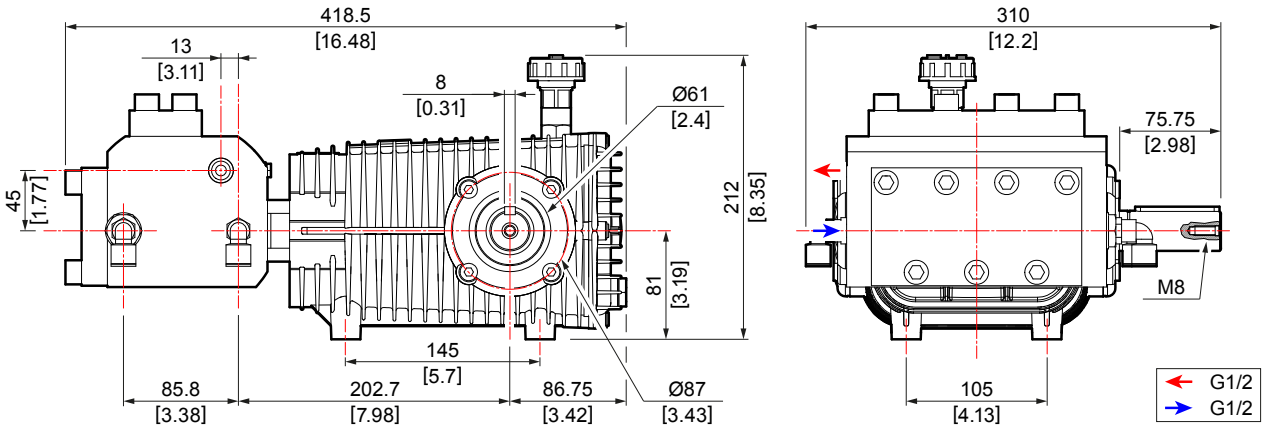
TW 10000

S | Ø30 mm

PREMIUM

SOLID SHAFT Ø 30 mm

Code	Model	Version	dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6513 2700	**TW 01100**	**S**	30 mm	1450	4.5	1.2	690	10000	69.0	10.6	7.9	34.5	76.0



PUMPS FOR HIGH TEMPERATURE WATER AND CARWASH PLANTS (85°C - 185°F)

Standard versions with p.t.o on right hand side, left side on request.

Other flow / pressure combinations are available on request .

High te

PUMPS FOR HIGH TEMPERATURE WATER

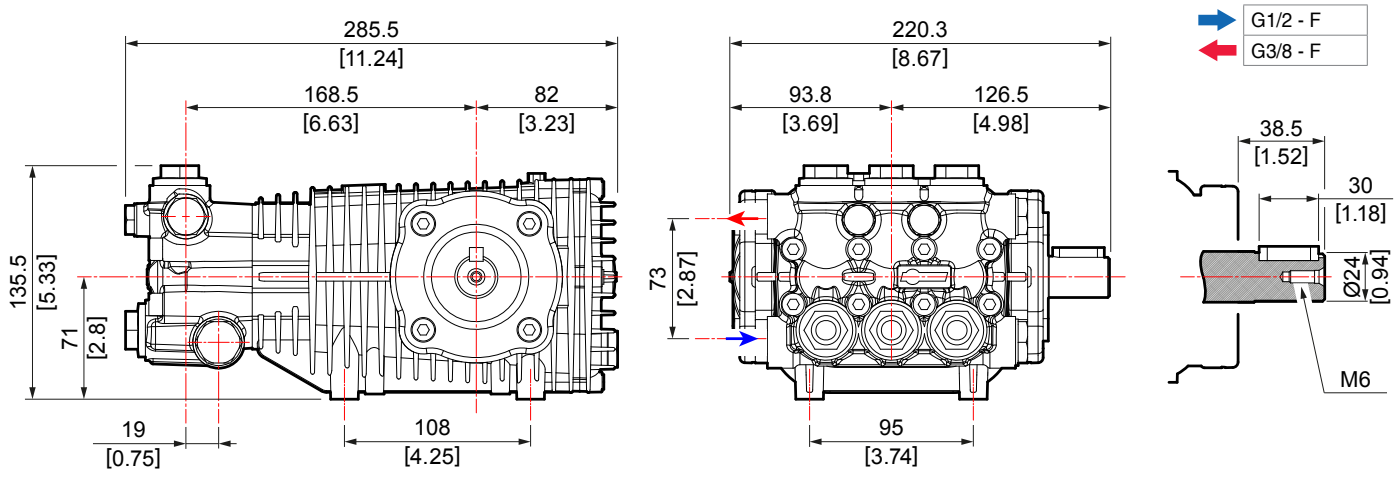
RW

RPM 1450 | MAX 85°C 185°F

S | Ø24 mm

SOLID SHAFT Ø 24 mm

Code	Model	Version	dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6517 0102	**RW 4030**	**S**	24mm	1450	15.6	4.1	207	3000	20.7	8.1	5.9	11.2	24.6
6517 0803	**RW 5530**	**S**	24mm	1450	22.8	5.1	207	3000	20.7	10.8	7.9	11.2	24.6
6517 1301	**RW 5535**	**S**	24mm	1450	20.8	5.3	241	3500	24.1	12.6	9.3	11.2	24.6
6517 0902	**RW 6030**	**S**	24mm	1450	23.4	6.2	207	3000	20.7	12.1	8.9	11.2	24.6



PUMPS FOR HIGH TEMPERATURE WATER

SW

RPM 1450

SWS

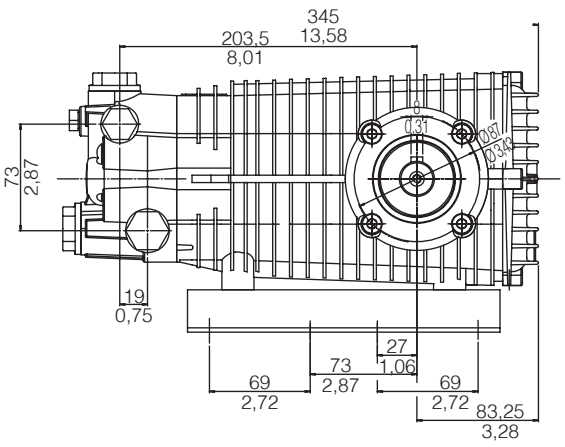
RPM 1750

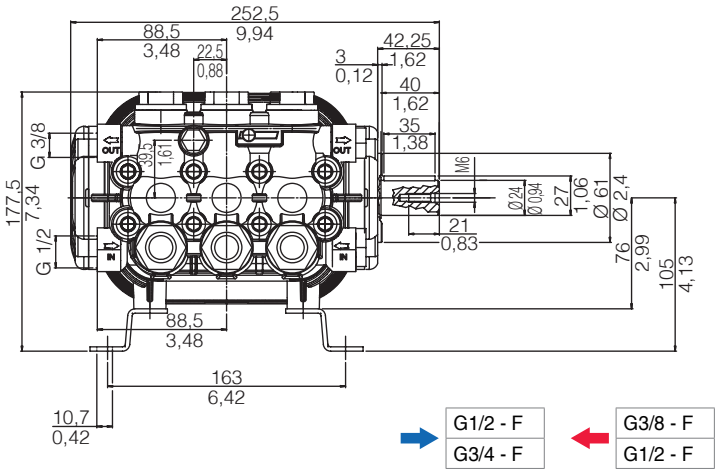
S | Ø24 mm

PREMIUM

SOLID SHAFT Ø 24 mm

Code	Model	Version	Ø	RPM									
			dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6515 0102	**SW 4040**	**S**	24mm	1450	15.1	4.0	276	4000	27.6	11.0	8.2	18.2	40.0
6515 0204	**SW 5540**	**S**	24mm	1450	20.8	5.5	276	4000	27.6	14.5	10.8	18.2	40.0
6516 0101	**SWS 4040**	**S**	24mm	1750	15.1	4.0	276	4000	27.6	11.0	8.2	18.2	40.0





PUMPS FOR HIGH TEMPERATURE WATER

RPM 1450 MAX 85°C 185°F

TW

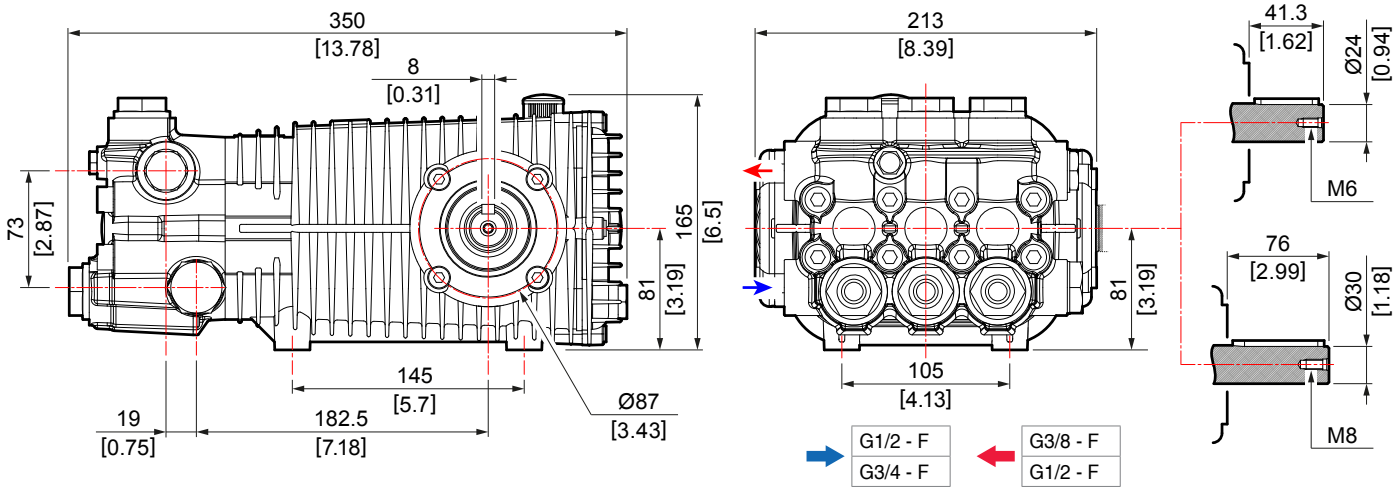
S | Ø24 mm

RPM 1750 MAX 85°C 185°F

TWS

SOLID SHAFT Ø 24 mm

Code	Model	Version	Ø	RPM						HP	kW	kg	lb
			dia	rpm	l/min	US gpm	bar	psi	Mpa				
6513 1401	**TW 8030**	**S**	24mm	1450	32.9	8.7	207	3000	20.7	17.0	12.7	20.0	44.0
6513 0902	**TW 8036**	**S**	24mm	1450	32.6	8.6	248	3600	24.8	20.5	15.3	20.0	44.0
6513 1201	**TW 11025**	**S**	24mm	1450	42.5	11.2	172	2500	17.2	18.5	13.7	20.0	44.0
6514 0703	**TWS 9030**	**S**	24 mm	1750	35.2	9.3	207	3000	20.7	18.7	13.9	20.0	44.0



AXIAL PISTON PUMPS

All models are supplied with brass head.

Other flow / pressure combinations are available on request .

Axial

AXIAL PISTON PUMPS

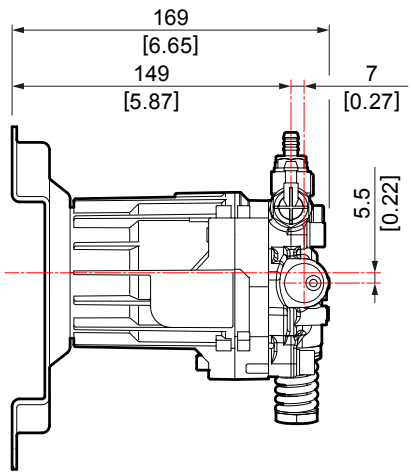
VRX

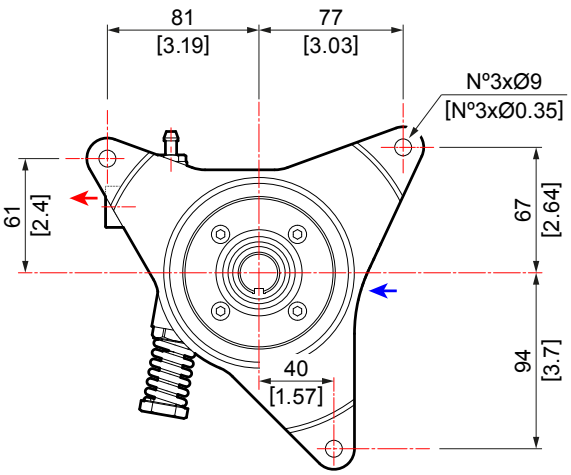
V | Ø 7/8”

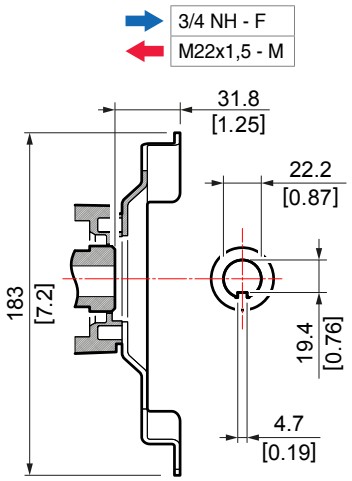
CYLINDRICAL HOLLOW SHAFT Ø 7/8”

	Code	Model	Version	Ø	Shaft Length	RPM										
				dia	mm	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
	6511 0023	VRX 2017	V	7/8”	80.0	3200	8.0	2.1	110	1600	11.0	2.6	1.9	2.4	5.3
*	6511 0004	VRX 2022	V	7/8”	46.0	3200	8.0	2.1	152	2200	15.2	3.5	2.6	3.5	7.7
	6511.0012	VRX 2017	V	7/8"	46.0	3200	8.0	2.0	116	1700	11.6	2.6	1.9	3.6	8.0
	6511.0017	VRX 2022	V	7/8"	80.0	3200	8.0	2.0	152	2200	15.2	3.5	2.6	3.5	7.8
	6511.0008	VRX 2422	V	7/8"	80.0	3200	8.7	2.3	152	2200	15.2	4.2	3.1	4.1	9.0

The models marked with * are supplied with aluminum head.







AXIAL PISTON PUMPS

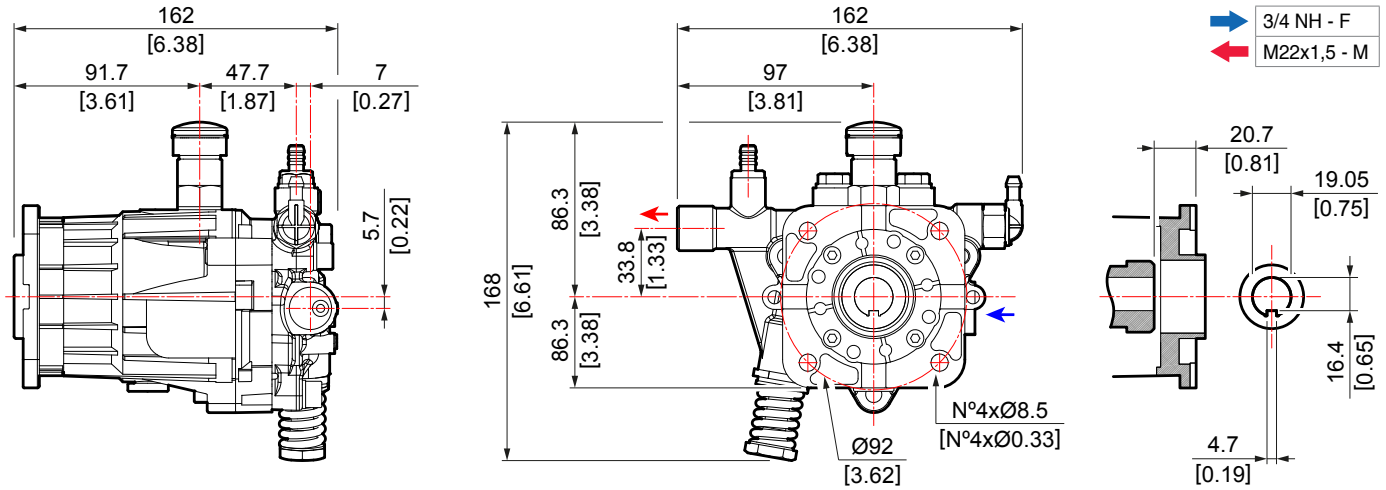
VRX

G | Ø 3/4”

HOLLOW SHAFT Ø 3/4”

Code	Model	Version	dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6511.0020	**VRX 2225 G**		3/4"	3400	8.3	2.2	170	2500	17.0	4.0	2.9	3.6	8.0
6511 0005	**VRX 2522 G**		3/4”	3400	9.5	2.5	152	2200	15.2	4.2	3.1	3.3	7.3
6511 0015	**VRX 2524 G**		3/4”	3400	9.5	2.5	165	2400	16.5	4.4	3.3	3.5	7.7
6511 0025	**VRX 2527 G**		3/4”	3400	9.5	2.5	186	2700	18.6	5.1	3.8	3.5	7.7
6511.0033	**VRX 2527 G7**		7/8"	3400	9.5	2.5	186	2700	18.6	5.1	3.8	4.0	8.8

SAE J 609 A



AXIAL PISTON PUMPS

BXD

G | Ø 3/4”

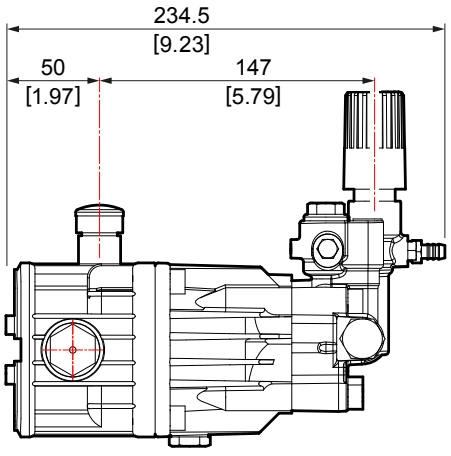
HOLLOW SHAFT Ø 3/4”

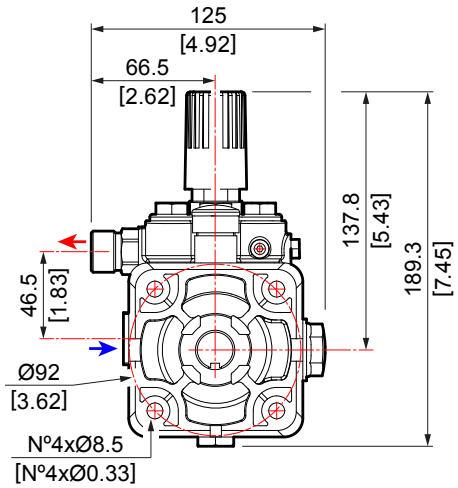
	Code	Model	Version	dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
▲	6525 1003	BXD 2220	G	3/4”	3400	8.4	2.2	138	2000	13.8	3.4	2.5	4.7	10.3
▲	6525 1001	BXD 2525	G	3/4”	3400	8.5	2.3	165	2500	16.5	4.2	3.1	4.7	10.3
▲	6525 1002	BXD 2527	G	3/4”	3400	9.0	2.4	185	2700	18.5	4.8	3.6	4.7	10.3
▲	6525 1004	BXD 3020	G	3/4”	3400	10.6	2.8	138	2000	13.8	4.2	3.1	4.7	10.3
▲	6525 1005	BXD 3025	G	3/4”	3400	11.1	2.9	135	2500	13.5	5.1	4.2	4.7	10.3

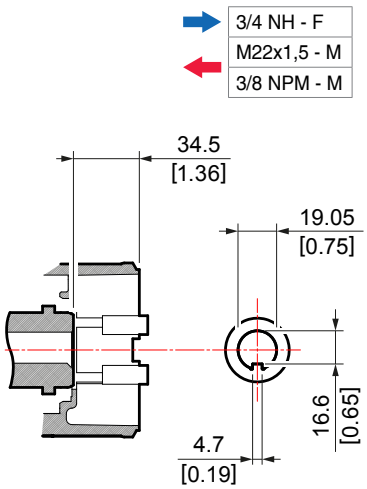
▲ Outlet connection 3/8 NPT

All models are equipped with **EASY-START** device.

SAE J 609 A







AXIAL PISTON PUMPS

BXD

E | Ø 5/8”

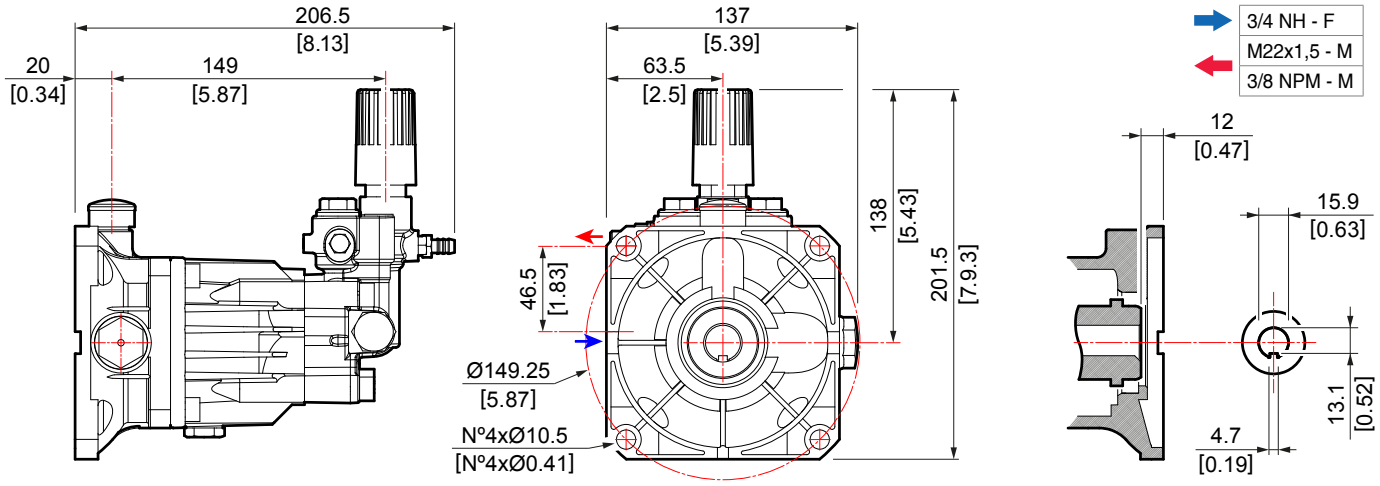
HOLLOW SHAFT Ø 5/8”

	Code	Model	Version	dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
▲	**6525 1010**	**BXD 2020**	**G**	5/8”	3400	7.2	1.9	138	2000	13.8	2.9	2.1	4.7	10.3
▲	**6525 1011**	**BXD 2520**	**G**	5/8”	3400	9.6	2.5	138	2000	13.8	3.8	2.8	4.7	10.3
▲	**6525 1012**	**BXD 3020**	**G**	5/8”	3400	10.6	2.8	138	2000	13.8	4.2	3.1	4.7	10.3

▲ Outlet connection 3/8 NPT

All models are equipped with **EASY-START** device.

NEMA 56 C



AXIAL PISTON PUMPS

AXD

RPM 3400

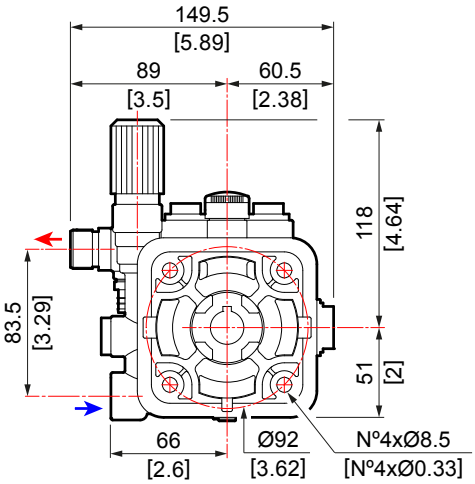
G | Ø 3/4”

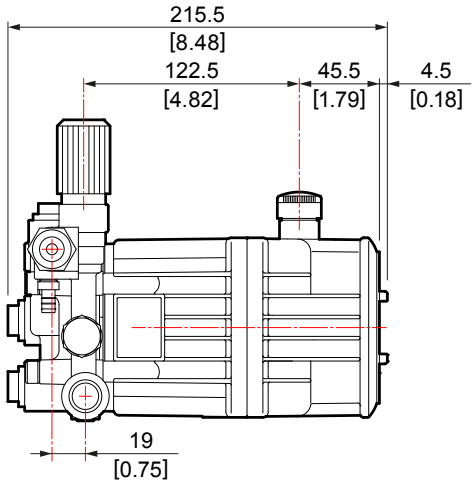
HOLLOW SHAFT Ø 3/4”

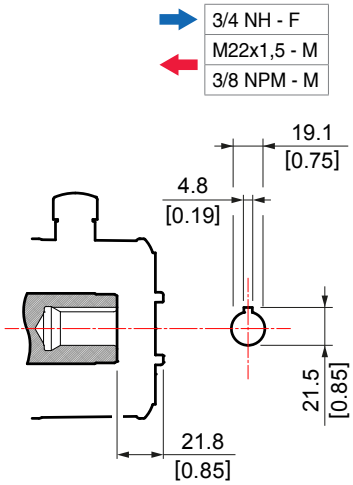
	Code	Model	Version	dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
▲	6501 0050	AXD 2524	G-T	3/4"	3400	9.0	2.4	163	2400	16.3	4.4	3.3	5.3	11.7
▲	6501 0051	AXD 2524	G	3/4"	3400	9.0	2.4	163	2400	16.3	4.4	3.3	5.3	11.7
▲	6501 0063	AXD 2427	G	3/4"	3400	9.0	2.4	186	2700	18.6	4.9	3.7	5.3	11.7
▲	6501 0025	AXD 2527	G	3/4”	3400	9.6	2.5	186	2700	18.6	5.2	3.8	5.3	11.7
▲	6501 0059	AXD 2527	G-T	3/4"	3400	9.6	2.5	186	2700	18.6	5.2	3.9	5.3	11.7
▲	6501 0065	AXD 2527	G	3/4"	3400	9.6	2.5	186	2700	18.6	5.2	3.9	5.3	11.7
▲	6501 0005	AXD 3020	G	3/4”	3400	10.2	2.7	138	2000	13.8	4.1	3.0	5.3	11.7
▲	6501 0006	AXD 3025	G	3/4”	3400	10.8	2.9	172	2500	17.2	5.4	4.0	5.3	11.7
▲	6501 0008	AXD 3522	G	3/4”	3400	12.7	3.3	152	2200	15.2	5.6	4.1	5.3	11.7
●	6501 0017	AXD 3525	G	3/4”	3400	12.7	3.3	172	2500	17.2	6.3	4.6	5.3	11.7

▲ Outlet connection 3/8 NPT ● Outlet connection M22x1.5

SAE J 609 A







AXIAL PISTON PUMPS

AXD

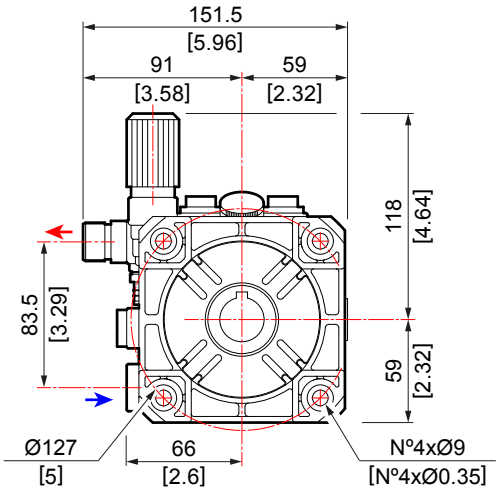
G Ø1”

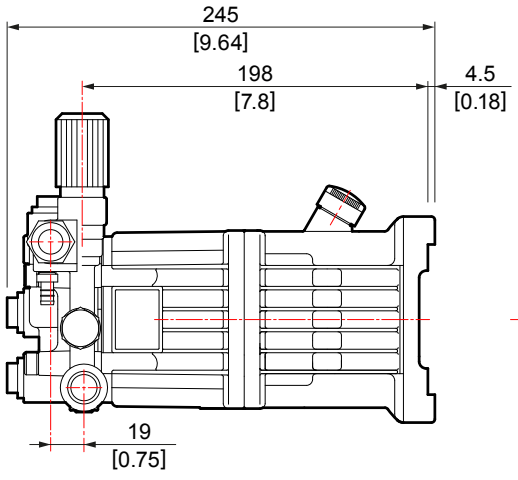
HOLLOW SHAFT Ø 1”

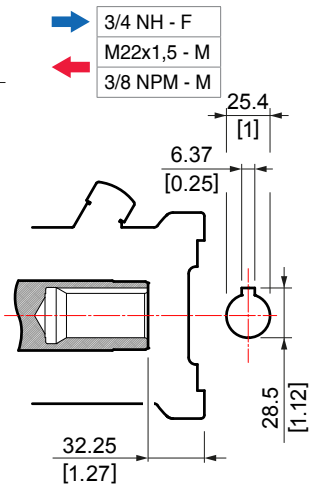
	Code	Model	Version	dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
▲	**6501 0024**	**AXD 3030**	**G**	1”	3400	11.0	2.9	207	3000	20.7	6.5	4.8	6.0	13.2
▲	**6501 0027**	**AXD 3530**	**G**	1”	3400	12.7	3.3	207	3000	20.7	7.5	5.6	6.0	13.2
▲	**6501 0023**	**AXD 4030**	**G**	1”	3400	14.2	3.8	207	3000	20.7	8.5	6.3	6.0	13.2

▲ Outlet connection 3/8 NPT

SAE J 609 B







AXIAL PISTON PUMPS

AXS

1750 RPM

AXD

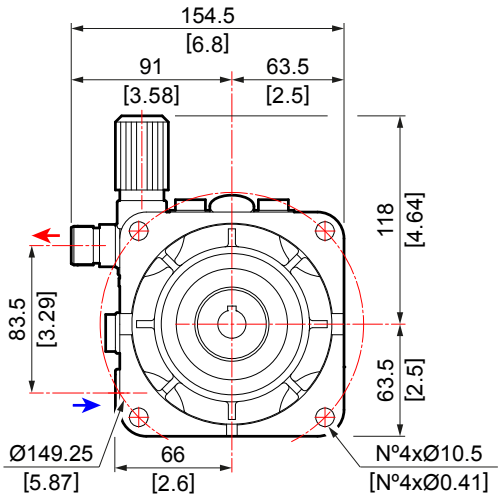
3400 RPM

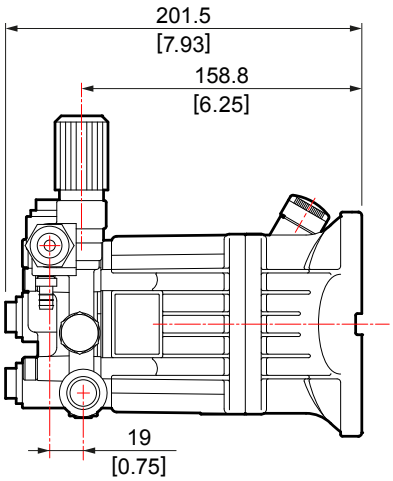
E | Ø 5/8”

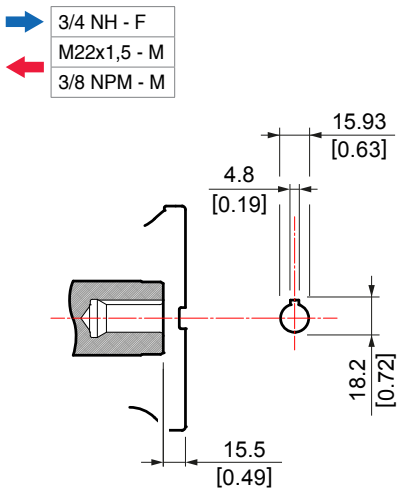
HOLLOW SHAFT Ø 5/8”

Code	Model	Version	dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6502 0009	AXS 0415	E	5/8"	1750	1.5	0.4	103	1500	10.3	0.5	0.4	5.3	11.7
6502 0010	AXS 0615	E	5/8"	1750	2.3	0.6	103	1500	10.3	0.8	0.6	5.3	11.7
6502 0005	AXS 0915	E	5/8"	1750	3.4	0.9	103	1500	10.3	1.0	0.7	5.3	11.7
6502 0008	AXS 1315	E	5/8"	1750	4.9	1.3	103	1500	10.3	1.5	1.1	5.3	11.7
6502 0006	AXS 2015	E	5/8"	1750	6.4	1.7	103	1500	10.3	2.0	1.5	5.3	11.7
6501 0038	AXD 2020	E	5/8"	3400	6.4	1.7	138	2000	13.8	2.7	2.0	5.3	11.7
6501 0010	AXD 2020	E	5/8”	3400	7.2	1.9	138	2000	13.8	2.9	2.1	5.3	11.7
6501 0098	AXD 2020	E-T	5/8"	3400	7.2	1.9	138	2000	13.8	2.9	2.2	5.3	11.7
6501 0012	AXD 2520	E	5/8”	3400	9.6	2.5	138	2000	13.8	3.8	2.8	5.3	11.7
6501 0090	AXD 2527	GE	3/4"	3400	9.6	2.5	186	2700	18.6	5.2	3.9	5.3	11.7
6501 0013	AXD 3020	E	5/8”	3400	10.8	2.9	138	2000	13.8	4.3	3.2	5.3	11.7
6501 0087	AXD 3020	GE	3/4"	3400	10.8	2.9	138	2000	13.8	4.1	3.1	5.3	11.7

NEMA 56 C







AXIAL PISTON PUMPS

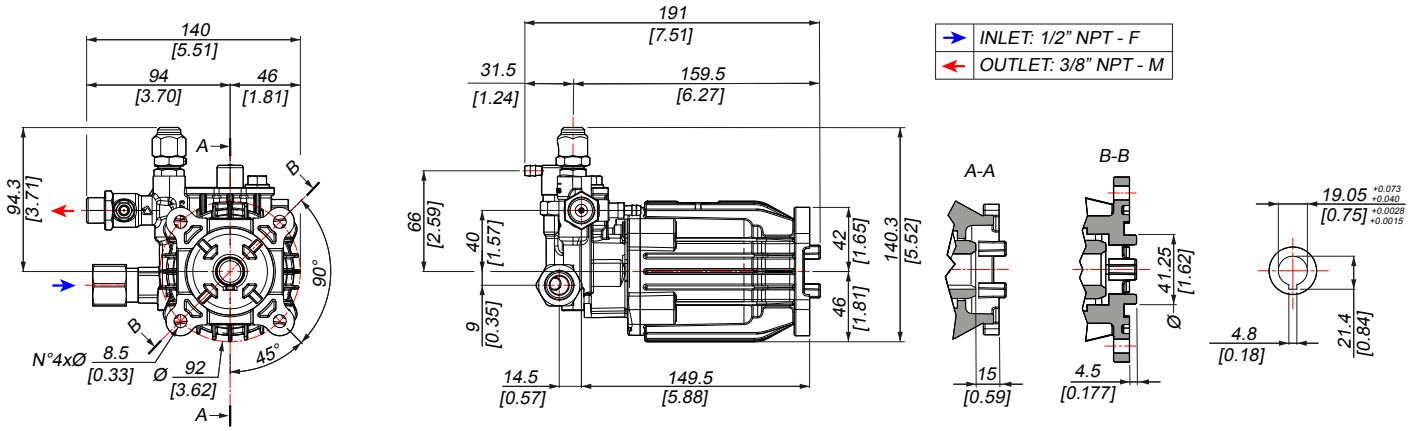
CXD

G | Ø 3/4”

HOLLOW SHAFT Ø 3/4”

	Code	Model	Version	dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
▲	**6527 0004 10**	**CXD 2530**	**G**	3/4”	3400	9.1	2.4	179	2600	17.9	4.7	3.5	3.0	6.6
●	**6527 0004 20**	**CXD 2530**	**G**	3/4”	3400	9.1	2.4	207	3000	20.7	5.5	4.1	3.0	6.6

▲ Outlet connection 3/8 NPT ● Outlet connection M22



MISTING PUMPS, LOW FLOW

All models are supplied with brass head.

Other flow / pressure combinations are available on request .

Misting

LOW FLOW MISTING PUMPS

LW

LWS

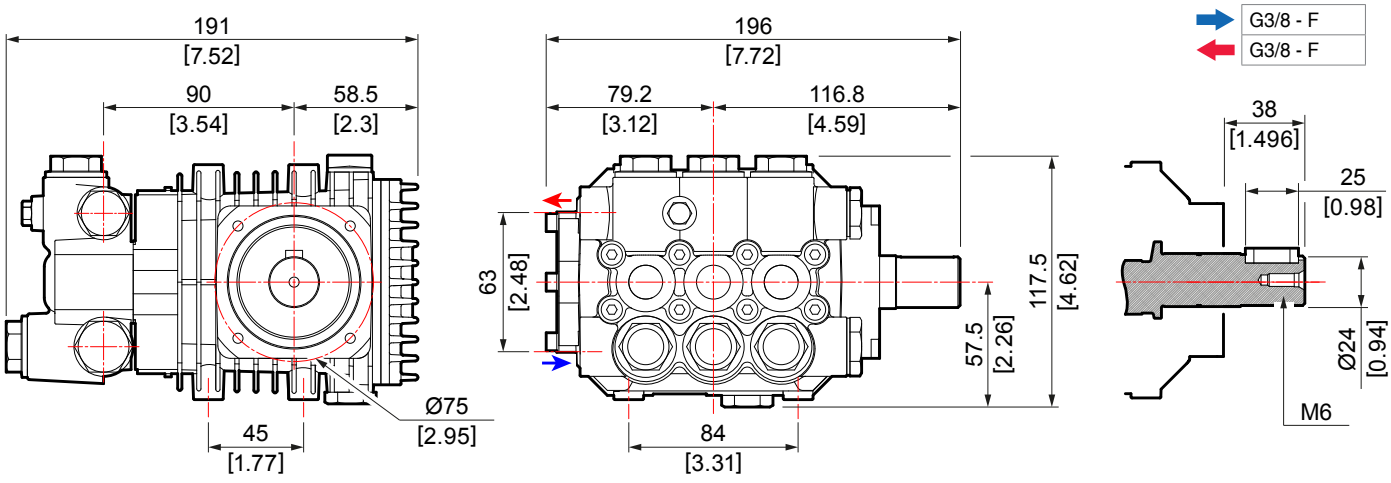
S | Ø24 mm

AVAILABLE ON REQUEST

STAINLESS STEEL HEAD

SOLID SHAFT Ø 24 mm

Code	Model	Version	dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6300 1501	**LW 0509**	**S**	24mm	1450	2.0	0.5	60	870	6.0	0.3	0.2	6.1	13.4
6300 1401	**LW 1009**	**S**	24mm	1450	3.8	1.0	60	870	6.0	0.5	0.4	6.1	13.4
6300 1601	**LW 1509**	**S**	24mm	1450	5.6	1.5	60	870	6.0	0.8	0.6	6.1	13.4
6301 2700	**LWS 0609**	**S**	24mm	1750	3.0	0.8	60	870	6.0	0.5	0.4	6.1	13.4
6301 2500	**LWS 1209**	**S**	24mm	1750	4.5	1.2	60	870	6.0	0.7	0.5	6.1	13.4
6301 2600	**LWS 1809**	**S**	24mm	1750	7.3	1.9	60	870	6.0	1.1	0.8	6.1	13.4



LOW FLOW MISTING PUMPS

LWS

1750 RPM

E | Ø 5/8”

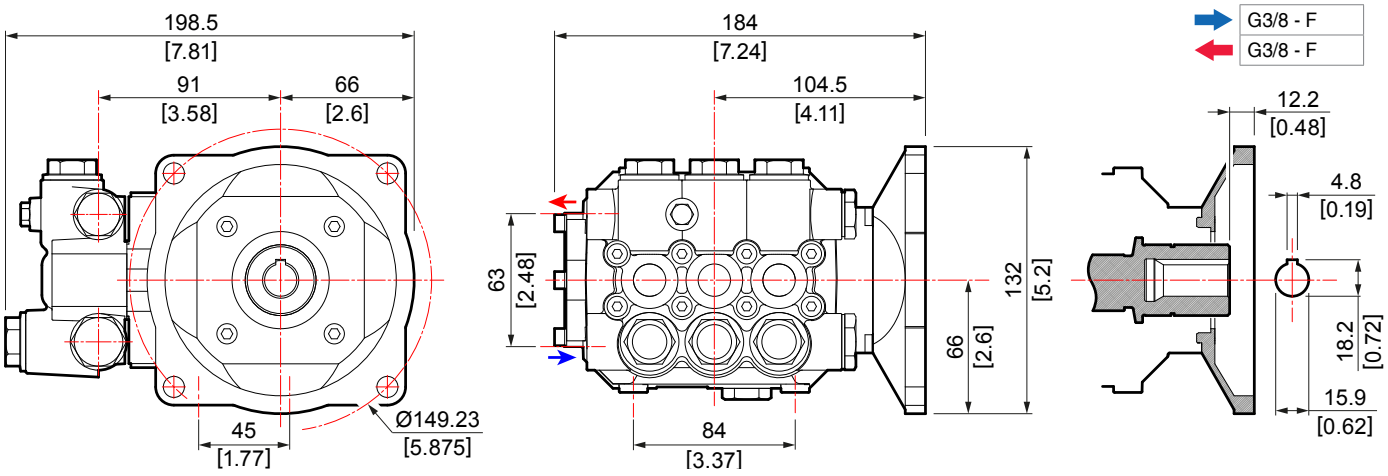
AVAILABLE ON REQUEST

STAINLESS STEEL HEAD

HOLLOW SHAFT Ø 5/8”

Code	Model	Version	dia	rpm	l/min	US gpm	bar	psi	Mpa	HP	kW	kg	lb
6301 2300	**LWS 0409**	**GE**	3/4”	1750	2.4	0.6	62	900	10.2	0.4	0.3	6.1	13.4
6301 2701	**LWS 0609**	**E**	5/8”	1750	3.0	0.8	60	870	6.0	0.5	0.4	6.1	13.4
6301 2501	**LWS 1209**	**E**	5/8”	1750	4.5	1.2	60	870	6.0	0.7	0.5	6.1	13.4
6301 2601	**LWS 1809**	**E**	5/8”	1750	7.3	1.9	60	870	6.0	1.1	0.8	6.1	13.4

NEMA 56 C



ACCESSORIES

Acces

COMET REPAIR KITS

All Comet Pump repair kits contain the quantity of components necessary to rebuild the entire pump.

Seal / Packing Replacement

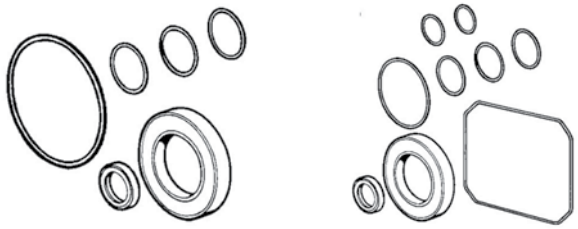
AXD **LW** **ZWD** **FW-HW**

Part#	Description
5026.0265.00	VRX Seal Kit, 1700 PSI
5026.0256.00	VRX Seal Kit, up to 2700 PSI
5019.0668.00	VRX Seal Kit 2700+ PSI
5019.0671.00	BXD Seal Kit 1500 PSI
5019.0667.00	BXD/GXD Seal Kit 2000+ PSI
5019.0077.00	AXD/AXS Seal Kit 2,500 PSI
5019.0086.00	AXD Seal Kit 3,000 PSI
5019.0684.00	BWD, Seal Kit, 2000 PSI
5019.0686.00	BWD, AWD, GWD Seal Kit
5019.0035.00	LW Seal Kit, 15mm
5019.0708.00	EWD Seal Kit
5019.0037.00	LW Seal Kit, 18mm
5019.0064.00	ZWD Seal Kit, 15mm
5019.0038.00	FW Seal Kit, 18mm
5019.0218.00	FW2 Seal Kit, 18mm
5019.0039.00	FW Seal Kit, 20mm
5019.0631.00	HW Seal Kit, 18mm
5019.0673.00	RW Seal Kit 18mm, Water
5019.0672.00	RW Seal Kit 20mm, Water
5019.0648.00	SW Seal Kit 20mm, Water
5019.0645.00	TW Seal Kit 18mm, Water
5019.0228.00	TW Seal Kit 18mm (7000 PSI)
5019.0646.00	TW Seal Kit 22mm, Water
5019.0647.00	TW Seal Kit 25mm, Water

Unloader Repair

Part#	Description
1215.0342.00	VRX Regulator Valve Kit, Brass
1215.0335.00	VRX Regulator Valve Kit, Alum.
1215.0584.00	BXD Elect., Cartridge 1885 PSI
1215.0585.00	AXD Cartridge 2610 PSI
1215.0586.00	BXD-G,BW/AW/GW,ZW Crtdg. 4000 PSI
5026.0143.00	AX/GXD Unloader Rebuild Kit
5026.0144.00	AX/GXD Maintenance Kit
5026.0142.00	AX/GXD Unloader Kit M22X1.5
5026.0123.00	LW Unloader Maintenance Kit
5026.0130.00	LW Unloader Rebuild Kit

Oil Seal Replacement



Part#	Description
5019.0659.00	GXD Seal Kit
5019.0250.00	BXD Oil Seal Kit
5019.0079.00	AX/AXS Oil Seal Kit
5019.0685.00	BW Oil Seal Kit
5019.0687.00	AW/GW Oil Seal Kit
5019.0285.00	EWD Oil Seal Kit
5019.0040.00	LW/ZW Oil Seal Kit Solid Shaft
5019.0044.00	FW, HW, HWS Kit Solid Shaft
5019.0219.00	FW2 Oil Seal Kit
5019.0041.00	LW Oil Seal Kit Hollow Shaft
5019.0065.00	ZWD Oil Seal Kit Hollow Shaft
5019.0045.00	FW/HWD Oil Seal Kit Hollow Shaft
5019.0257.00	FW2 Seal Kit
5019.0650.00	SW Seal Kit
5019.0644.00	TW Seal Kit, Oil (Up to 3600 PSI)
5019.0649.00	TW Seal Kit, Oil (4000+ PSI)
5019.0229.00	TW Seal Kit, Oil (7000 PSI)
5019.0675.00	RW Oil Seal Kit, Solid Shaft
5019.0679.00	RW Oil Seal Kit, Hollow Shaft

Piston

AXD **LW, ZW, FW, HW**

Part#	Description
5026.0260.00	VRX, Piston Seal Kit, All VRX's
2409.0126.00	GXD Piston Kit
2409.0092.00	AXD/AXS Piston Kit
2409.0103.00	AXD Piston Kit 3,000 PSI
2409.0260.00	EWD Piston Kit
2409.0260.00	GWD Piston Kit
2409.0071.00	LW/ZWD Piston Kit, 15mm
2409.0072.00	LW Piston Kit, 18mm
2409.0073.00	FW/HW Piston Kit, 18mm
2409.0074.00	FW/SW Piston Kit, 20mm
2409.0146.00	RW Piston Kit, 18mm
2409.0145.00	RW Piston Kit, 20mm
2409.0116.00	TW Piston Kit 18mm
2409.0114.00	TW Piston Kit 22mm
2409.0115.00	TW Piston Kit 25mm

COMET REPAIR KITS

Check Valve

Part#	Description
5026.0263.00	VRX Check Valve Kit, 1700 PSI
5026.0257.00	VRX Check Valve Kit, 2200 PSI
5026.0270.00	VRX Check Valve Kit, 2400+ PSI
5025.0027.00	Check Valve Kit, BXD
5025.0014.00	AXD/AXS & GXD Check Valve Kit
5025.0030.00	Valve Kit, BWD, AWD & GWD
5025.0075.00	EWD Valve Kit
5025.0011.00	LW, ZW, FW2, HW, RW & SW
5025.0025.00	FW2, HWS, RW High Flow, 5+ GPM
5025.0020.00	TW Valve Kit Up to 3600 PSI
5025.0021.00	TW Valve Kit (4000+ PSI)
5025.0050.00	TW Valve Kit (7000 PSI)
5025.0073.00	TW Valve Kit (12000 PSI)

Hot Water

- Hot water seal protection
- Contains Hot Water Seals only
- Viton Seals are Chemically Resistant

Part#	Description
5019.0048.00	LW, ZW, Hot Water, 15mm
5019.0711.00	ZW Kevlar Seal Kit, 15mm
5019.0049.00	LW,HW-Requires 2,Hot Water,18mm
5019.0050.00	LW, Viton Seal Kit, 18mm
5019.0051.00	LW, ZW, Viton Seal Kit, 15mm
5019.0053.00	FW, Hot Water Seal Kit, 18mm
5019.0702.00	FW2, Hot Water Seal Kit, 18mm
5019.0703.00	FW/FW2, Kit (Seals Only), 18mm
5019.0054.00	FW,FW2, HW Seals Only, 20mm
5019.0669.00	FW,FW2, Complete Kit, 20mm
5019.0676.00	RW Hot Water Seal Kit, 20mm
5019.0710.00	RW Kevlar Seal Kit, 18mm
5019.0674.00	RW Kevlar Seal Kit, 20mm
5019.0665.00	SW Kevlar Seal Kit, 20mm
5019.0670.00	SW Hot Water Seal Kit, 20mm
5019.0736.00	TW Seal Kit 15mm, Water
5019.0737.00	TW Seal Kit, Oil (Up to 12000 PSI)
5019.0653.00	TW Packing Kit, 18mm
5019.0654.00	TW Packing Kit, 22mm
5019.0655.00	TW Packing Kit, 25mm
5019.0662.00	TW Seal Kevlar Kit, 22mm
5019.0663.00	TW Seal Kevlar Kit 25mm
5019.0613.00	RW Hot & Cold Seal Kit 18mm
2409.0293.00	TW Piston Kit 15mm

TORQUE SETTINGS Nm (Ft. Lb.)

DESCRIPTION	BX	AX	BW	LW ZW	AW	FW	HW	FW2	RW	SW	TW	
Manifold Screw	25 (18,4)	25 (18,4)	10 (7,4)	10 (7,4)	<230 Bar 10 (7,4)	25 (18,4)	25 (18,4)	25 (18,4)	25 (18,4)	45 (33,2)	45 (33,2)	
					>230 Bar 80 (59,0)							
Cap Valve (Aluminum Manifold)		35 (25,8)		40 (9,5)								Loctite 243
Cap Valve (Brass Manifold)	45 (33,2)	45 (33,2)	45 (33,2)	<230 Bar 50 (36,9)	45 (33,2)	50 (36,9)	80 (59,0)	<230 Bar 50(36,9)	<230 Bar 50 (36,9)	80 (59,0)		Loctite 243
				>230 Bar 60 (44,3)				>230 Bar 80 (59,0)	>230 Bar 80 (59,0)		<360 Bar 80 (59,0)	Loctite 243
											>360 Bar 80 (59,0)	Loctite 270
Bearings Flange Screw Opposite Shaft Side			4 (3,0)	4 (3,0)	4 (3,0)	9 (6,6)	9 (6,6)	9 (6,6)	9 (6,6)	25 (18,4)	25 (18,4)	
Conn. Rod Screw											25 (18,4)	Loctite 243
Crankcase Cover Screw			9 (6,6)	9 (6,6)	9 (6,6)	4 (3,0)	4 (3,0)	4 (3,0)	4 (3,0)	9 (6,6)	9 (6,6)	
Bearing flange Screw Shaft Side			9 (6,6)	9 (6,6)	9 (6,6)	25 (18,4)	25 (18,4)	25 (18,4)	25 (18,4)	25 (18,4)	25 (18,4)	
Piston Nut			6 (4,4)	6 (4,4)	6 (4,4)	10 (7,4)	10 (7,4)	10 (7,4)	10 (7,4)	15 (11,1)	15 (11,1)	Loctite 243
Eccentric Shaft Screw		25 (18,4)										Loctite 243
Crankcase Flange Screw	25 (18,4)	25 (18,4)										

COMET ACCESSORIES

ANTI-FREEZE - Pump saver

- Protects Pump from Freezing in Winter
- Attaches to any Pump Inlet to Fill Pump Chamber

Part#	Description
PK-85490046	Pump Saver, 16 oz.

BURNER RINGS

- Cast Iron for Long Life
- High-Flow Design
- Industry Standard Sizes
- Improved Casting Design

Part#	Description
8102.0122.00	44-50 Burner Ring, 50-Orifice
8102.0123.00	44-51 Burner Ring, 51-Orifice
8102.0124.00	44-52 Burner Ring, 52-Orifice
8102.0125.00	44-53 Burner Ring, 53-Orifice
8102.0126.00	44-54 Burner Ring, 54-Orifice
8102.0127.00	44-55 Burner Ring, 55-Orifice
8102.0128.00	44-56 Burner Ring, 56-Orifice
8102.0129.00	44-57 Burner Ring, 57-Orifice
8102.0130.00	44-58 Burner Ring, 58-Orifice
8102.0131.00	44-59 Burner Ring, 59-Orifice
8102.0132.00	44-60 Burner Ring, 60-Orifice
8102.0133.00	44-61 Burner Ring, 61-Orifice
8102.0134.00	44-62 Burner Ring, 62-Orifice
8102.0135.00	44-63 Burner Ring, 63-Orifice
8102.0136.00	44-64 Burner Ring, 64-Orifice
8102.0137.00	44-65 Burner Ring, 65-Orifice
8102.0138.00	44-66 Burner Ring, 66-Orifice
8102.0139.00	44-67 Burner Ring, 67-Orifice
8102.0140.00	44-68 Burner Ring, 68-Orifice
8102.0141.00	44-69 Burner Ring, 69-Orifice
Not All Sizes Stocked	
8102.0120.00	32-69 Burner Ring, 69-Orifice
8102.0182.00	66-62 burner Ring, 62-Orifice
8102.0189.00	66-69 Burner Ring, 69-Orifice
8102.0162.00	88-69 Burner Ring, 69-Orifice
32, 66 & 88- Other nozzle sizes available upon request	
8102.0100.00	Replacement Nozzle

BRUSH - Rotating

- 580 PSI
- 140° F Max
- 3.0mm Nozzle

Part#	Description
RBN-3000	Nylon Bristles, 1/4" M Inlet MV #0201000001
8108.8300.00	Horse Hair Bristles, 1/4" M Inlet MV #0201000011

CARTS - Pressure Washers

- Durable Powder Coat
- Pneumatic Wheels
- Nickel Axle Caps
- Rubber Foot Pads
- Rubber Nozzle Grommets
- Heavy-Duty Welded Steel Frame Cart
- 3/4" Axle

A B

Part#	Description
8402.0207.00[A]	10" Wheels Up to 6.5 HP Gas Engine or 56C Electric Motor Base Dimensions: 14.5" x 14.5"
8402.0210.00[B]	13" wheels 11-20 HP Gas Engine or 182-184T Electric Motor Base Dimensions: 14" x 21"

CARTS - Components

Part#	Description	Style
8102.0202.01	Knuckle & Bolt for 8102.0202.60	**E**
8402.0264.00	Knuckle & Bolt for 8402.0201.00	**F**
8102.0260.00	Grommet, Spray Tip Holder	**C**
8102.0261.00	Rubber Foot w/Hardware for 8102.0201.00, 8102.0202.60 & 8102.0203.00	**A**
8402.0260.00	Rubber Foot for 8402.0201.00 & 8402.0202.00	**D**
8102.0263.00	Nickel Plated Axle Cap, 5/8"	**B**
8102.0264.00	Nickel Plated Axle Cap, 3/4"	**B**

A B C

Part#	Description	Style
8402.0252.00	10" Pneumatic Wheel 3/4" Industrial Duty Nylon Bearing	**A**
8402.0257.00	10" Pneumatic Wheel 5/8" Industrial Duty Nylon Bearing	**A**
8402.0253.00	13" Pneumatic Wheel 3/4" Industrial Duty Nylon Bearing	**B**
8402.0258.00	10" Foam Filled Tire 3/4" Axle	**C**
8402.0259.00	10" Foam Filled Tire 5/8" Axle	**C**

CARTS - Cart Components

4" Pulley

1" Bushing

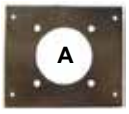
24mm Bushing

9" Pulley

Belt

Part#	Description
7600.0275.00	4" Pulley
7600.0271.00	24mm Bushing
7600.0272.00	1" Bushing
7600.0276.00	9" Pulley
8102.0274.00	40" Belt B-Style
8102.0275.00	Pulley & Belt Assembly Kit"
	Includes all of the above, 2 belts, 2 bolts

CLUTCH



- 12 Volt
- 101 Nm of Torque
- 75 Lb.-Ft.
- 3.9 Amps

Part#	Description	Style
8201.0000.00	Clutch, Single Groove	
8201.0007.00	Clutch, Double Groove	
8201.0009.00	Clutch, Double Groove, 24 volt with 3/4" Industrial Duty Nylon Bearing	
7600.0100.00	Plate, 2 1/2" Dia For Pump Models FW, HW, RW, SW & TW	**A**
7600.0101.00	Plate, 1 1/2" Dia For Pump Models LW & ZW	**B**

COUPLERS - Insulated

- 10 GPM
- 5000 PSI
- 212°F

Part#	Description
8402.1301.00	Coupler, 1/4" Insulated FPT
8402.1302.00	Coupler, 1/4" Insulated MPT
8402.1303.00	Coupler, 3/8" Insulated FPT
8402.1304.00	Coupler, 3/8" Insulated MPT

COUPLER - QC Sockets

- Ball Bearing Snap Connection
- Precision Machined Parts
- Click Lock Design
- 5000 PSI - 1/4"
- 4000 PSI - 3/8" & 1/2"
- **Box Qty 100 (1/4" & 3/8")**
- **Box Qty 50 (1/2")**

Brass Sockets

Part#	Description
8102.0301.00	Brass Socket, 1/4" FPT
8102.0303.00	Brass Socket, 1/4" MPT
8102.0302.00	Brass Socket, 3/8" FPT
8102.0304.00	Brass Socket, 3/8" MPT
8102.0357.00	Brass Socket, 1/2" FPT
8102.0356.00	Brass Socket, 1/2" MPT

Stainless Steel Sockets-5000 PSI

Part#	Description
8102.0309.00	Stainless Steel, 1/4" FPT
8102.0311.00	Stainless Steel, 1/4" MPT
8102.0310.00	Stainless Steel, 3/8" FPT
8102.0312.00	Stainless Steel, 3/8" MPT

O-RING - Replacement

Part#	Description
8102.0301.01	"O" Ring for 1/4" Couplers
8102.0301.02	Viton "O" Ring for 1/4" Couplers
8102.0302.01	"O" Ring for 3/8" Couplers
8102.0302.02	Viton "O" Ring for 3/8" Couplers
8102.0356.01	"O" Ring for 1/2" Couplers

COUPLERS - QC Plugs

- Industrial Grade Steel
- Precision Machined Parts
- 5000 PSI - 1/4”
- 4000 PSI - 3/8” & 1/2”
- **Box Qty 100**

Brass Plugs

Part#	Description
8102.0350.00	Brass Plug, 1/4” FPT
8102.0351.00	Brass Plug, 1/4” MPT
8102.0352.00	Brass Plug, 3/8” FPT
8102.0353.00	Brass Plug, 3/8” MPT
8102.0363.00	Brass Plug, 1/2” FPT
8102.0362.00	Brass Plug, 1/2” MPT

ST-N2 Steel Plugs

Part#	Description
8102.0320.00	Steel Plug, 1/4” FPT
8102.0321.00	Steel Plug, 1/4” MPT
8102.0322.00	Steel Plug, 3/8” FPT
8102.0323.00	Steel Plug, 3/8” MPT
8102.0355.00	Steel Plug, 1/2” FPT
8102.0354.00	Steel Plug, 1/2” MPT

COUPLERS - QC Plugs

Hardened Steel Plugs

Part#	Description
8102.0324.00	Hardened Steel Plug, 1/4” FPT
8102.0325.00	Hardened Steel Plug, 1/4” MPT
8102.0326.00	Hardened Steel Plug, 3/8” FPT
8102.0327.00	Hardened Steel Plug, 3/8” MPT

Stainless Steel Plugs-5000 PSI

Part#	Description
8102.0328.00	Stainless Steel Plug, 1/4” FPT
8102.0329.00	Stainless Steel Plug, 1/4” MPT
8102.0330.00	Stainless Steel Plug, 3/8” FPT
8102.0331.00	Stainless Steel Plug, 3/8” MPT

COUPLERS - Twist Connect & QC

- Secure Twist Connection
- Click Lock Design
- 4000 PSI

Part#	Description
8402.1305.00	Coupler M22F x 3/8” QC

COUPLERS - Twist Connect & QC

- Adapts from QC to M22 Twist Connect
- 4000 PSI
- **Box Qty 100**

Part#	Description
8102.8518.00	3/8” QC Socket X M22M
8102.8519.00	3/8” QC Plug x M22F

COUPLERS - Twist Cnct, 1/2” MVG

- 1/2” Couplin
- 10.6 GPM
- 4060 PSI
- 300°F
- **Box Qty 25**

Part#	Description
8108.9156.00	Body G 1/4” F MV #0212000030
8108.9157.00	Body G 1/4” M MV #0212000050
8108.8019.00	Body G 3/8” F MV #0212000020
8108.7012.00	Body G 3/8” M MV #0212000040
8108.7013.00	Plug G 1/4” F MV #0212000130
8108.9124.00	Plug G 1/4” M MV #0212000150
8108.7014.00	Plug G 3/8” F MV #0212000120
8108.7015.00	Plug G 3/8” M MV #0212000140

COUPLERS - Twist Connect, M22

- 10.6 GPM
- 302°F
- **Box Qty 25**

- 8 GPM
- 10.6 GPM

Part#	Description
8108.9125.00	Body, 1/4” F x M22F, 3600 PSI MV #0212003530
8108.8302.00	Body, 1/4” M x M22F, 3600 PSI MV #0212003550
8108.7004.00	Body, 3/8” F x M22F, 3600 PSI MV #0212003520
8108.8301.00	Body, 3/8” M x M22F, 3600 PSI MV #0212003540
8108.8303.00	Plug, 1/4” F x M22M, 4060 PSI MV #0212003630
8108.7005.00	Plug, 1/4” M x M22M, 4060 PSI MV #0212003650
8108.7006.00	Plug, 3/8” F x M22M, 4060 PSI MV #0212003620
8108.7007.00	Plug, 3/8” M x M22M, 4060 PSI MV #0212003640

COUPLERS - Twist Connect, M22

- Secure Twist Connection
- Precision Machined
- 10 GPM
- 4000 PSI
- **Box Qty 100**

Part#	Description	Style
8102.6000.00	Body, 1/4" FPT x M22F, Brass	**A**
8102.6020.00	Body, 1/4" MPT x M22F Brass	**B**
8102.6001.00	Body, 3/8" FPT x M22F, Zinc	**C**
8102.8521.00	Body, 3/8" MPT x M22F Brass	**D**
8102.6002.00	Plug, 1/4" FPT x M22M	**E**
8102.6004.00	Plug, 1/4" MPT x M22M	**F**
8102.6003.00	Plug, 3/8" FPT x M22M	**G**
8102.6005.00	Plug, 3/8" MPT x M22M	**H**
8102.6000.01	O-ring, Twist Connect	

COUPLING - Ball Quick Coupling

- 12 GPM
- 3600 PSI
- 300° F
- **Box Qty 5**

Part#	Description
8108.8304.00	Coupler, G 1/4" M MV #0212006150
8108.8311.00	Coupler, G 1/4" M, Viton O-ring MV #40101202009
8108.8310.00	Coupler, G 1/4" M, Viton O-ring, SS MV #4101202008
8402.1677.00	Plug, G 1/4" F

ENGINE KEYS

- Keys for All Common Engine Shafts
- Fits 1" & 3/4" Shafts

Part#	Description
8102.2800.00	Shaft Key-3/4" Solid Shaft
8102.2801.00	Shaft Key-1" Solid Shaft

FILTER/HOSE Assembly

- Industrial Duty Hose
- Chemical Filter with Check Valve

Part#	Description
8102.3000.00	Chemical Hose Assembly, 3 ft.
8102.3001.00	Chemical Hose Assembly, 6 ft.

FILTERS - Self-Cleaning

- 40 GPM
- 290 PSI
- 60° F
- Polypropylene

Part#	Description
8108.8006.00	Filter, In-Line G1" F, 80 Mesh MV #8106002
8108.8007.00	Filter, In-Line G1" F, 100 Mesh MV #8106003
8108.8033.00	Filter, In-Line, 1" FPT, 50 Mesh MV #8106005
8108.8009.00	Filter, In-Line 1" FPT, 100 Mesh MV #8106007

FILTER - MV 19

- 8 GPM
- 116 PSI
- 140° F
- 70 micron; 290 mesh
- 3/4" F Inlet x 3/4" M Outlet
- **Box Qty 10**

Part#	Description
8108.7033.00	Plastic, clear, suction MV #0211001110

FILTERS - Canister

- 174 PSI
- 1" (F x F) Connection
- Uses 9-3/4" Filters

Part#	Description
8402.0430.00	Poly carbonate Housing
8402.0431.00	Filter, Plastic, 60 Microns, 9 3/4"
8402.0432.00	Filter, Carbon Block, 5 Microns

FILTERS - High Pressure

- 10.5 GPM
- Max PSI 5000
- Max Temp 194°
- Stainless w/Brass Insert
- 80 Mesh

Part#	Description
8402.0335.00	Filter 1/4" FPT x 1/4" MPT
8402.0334.00	Filter 1/4" QC x 1/4" MPT
8402.0334.01	Screen, High Pressure Filter

FILTERS - Chemical Suction

A

B

C

D

400 Microns/40 Mesh
A & B

840 Microns/20 Mesh
C & D

Box Qty
- **20**
- **10**
- **50**
- **50**

Part#	Description	
8402.2005.00	Chemical Strainer--with Check	**A**
8108.7024.00	Chemical Strainer--with Ballast MV #8064000	**B**
8108.9119.00	Intake Strainer, MV 15 MV #0211000120	**C**
8108.9118.00	Intake Strainer, MV 16 w/Check MV #0211000110	**D**

FILTER - Inlet

A

B

- Bypass Port
- Replaceable Screen
- 50 Mesh Filter Screen
- Aluminum Body

Part#	Description	
8402.0410.00	Inlet Filter, 1/2” F x 1/2” M	**B**
8402.0411.00	Replacement Blue Cap	
8402.0412.00	Replacement Screen	
8102.0401.00	Inlet Filter, FGH x 1/2” M w/ Garden Hose Adaptor	**A**

FILTER - Inlet, Clear Bowl

***Patent Pending**

- 8.0 GPM
- 160 PSI
- 175° F
- 3/4” FGH Inlet
- 1/2” MPT Outlet

Part#	Description
8102.0460.00	Filter, No By-Pass
8102.0461.00	Filter, 1/4” By-Pass
8102.0460.01	Replacement Sleeve
8102.0460.02	Replacement O-Ring

FILTER - Tank Suction

- With 13mm & 19mm Hose Tail
- Straining Power 400 Microns
- 50 Mesh Screen

Part#	Description
8402.0440.00	Tank Suction Filter
8402.0441.00	Tank Suction Filter w/check

FILTER - Strainer MV 18

- 8.0 GPM
- 145 PSI
- 140° F
- 180 Micron
- 30 Mesh
- **Box Qty 10**

Part#	Description
8108.7016.00	1/2”F x 1/2”M x 1/4”F By-Pass MV #0211001080
8108.7011.00	1/2”F x 1/2”M, No By-Pass MV #0211001090
1002.0110.00	1/2”F x 1/2”F, No By-Pass MV #0211001100
8108.7017.00	Cap MV #0103740020
8108.7022.00	O-ring MV #0110750960

FILTER - Intake Strainer

- 290 PSI
- 8 GPM
- 210° F
- 50 Mesh SS. Screen
- Brass Body
- 400 Micron Strainer
- **Box Qty 5**

Part#	Description
8107.2011.00	1/2” F x 1/2” F MV #0211000520
8107.2012.00	3/4” F x 3/4” F MV #0211000530
8107.2013.00	1” F x 1” F MV #0211000540

FITTINGS - Garden Hose

A

B

C

D

- 10.5 GPM
- 360 PSI
- Solid Brass Fittings
- Precision Threads

Part#	Description	
8105.0600.00	3/8” MPT x FGH	**A**
8105.0601.00	1/2” MPT x FGH	**A**
8105.0501.00	3/8” MPT x FGH	**B**
8105.0500.00	1/2” MPT x FGH	**B**
8105.0502.00	1/2” FPT x FGH	**C**
8102.0450.00	Filter Washer for GH Adapter	**D**

FITTINGS - QC Garden Hose

A

B

C

- Solid Brass Fittings
- Precision Threads
- **Box Qty 100**
- 10.5 GPM
- 360 PSI
- 176° F

Part#	Description	
8102.0335.00	Plug, Brass, 1/2” QC x MGH	**A**
8102.0336.00	Coupler, Brass, 1/2” QC x FGH	**B**
8102.0337.00	Garden Hose QC Set	
8102.0451.00	Washer, Garden Hose	**C**

FITTINGS - Misc.

Part#	Description	
8102.6017.00	Street L, 1/8" M x 1/4" F, Brass	**A**
8102.0503.00	Street L, 1/4" M x 1/4" F	**A**
8102.0509.00	Street L, 3/8" M x 1/4" F, Brass	**A**
8102.0504.00	Street L, 3/8" M x 3/8" F	**A**
8102.0502.00	Tee, 3/8" F x 3/8" F x 3/8" F	**B**
8102.0512.00	Nipple 1/4" MPT x 1/4" MPT, Brass	**C**
8102.6016.00	Nipple 3/8" MPT x 1/4" MPT, Brass	**C**
8102.0505.00	Nipple, 3/8" MPT x 3/8" MPT, Brass	**C**
8102.6011.00	Nipple, 1/2" MPT x 1/2" MPT, Brass	**C**
8102.6006.00	Nipple, M22M x M22M	**C**
8102.0520.00	Bushing 3/8"MPT x 1/4"FPT, Brass	**D**
8102.0506.00	Bushing 1/2"MPT x 3/8"FPT, Brass	**D**
8102.0519.00	Bushing 3/4"MPT x 1/2"FPT, Brass	**D**
8102.6012.00	Adapter 3/8"FPT x 1/4"MPT, Brass	**E**
8102.6014.00	Coupling, 3/8" F, Brass	**F**
8102.0507.00	Hose Barb 3/8" x 1/4" MPT, Brass	**G**
8102.0508.00	Hose Barb 3/8" x 3/8" MPT, Brass	**G**
8102.0517.00	Hose Barb 1/2" x 3/8" MPT, Brass	**G**
8102.0518.00	Hose Barb 1/2" x 1/2" MPT, Brass	**G**
8102.6022.00	Plug 3/4" brass	

FLEX COUPLER - Love Joy

- Up to 35 E.B.H.P.
- Direct Drive
- Close Couple
- Electric & Gas

Part#	Description
1009.0273.00	Bell Housing, NEMA 184-213-215
8201.0002.00	Love Joy Coupler, 24mm (Jaw)
8201.0008.00	Love Joy Coupler, 30mm (Jaw)
8201.0003.00	Love Joy Coupler, 1" (Jaw)
8201.0004.00	Love Joy Coupler, 1-1/8" (Jaw)
8201.0005.00	Love Joy Coupler, 1-3/8" (Jaw)
8201.0012.00	Love Joy Coupler, 1-5/8" (Jaw)
8201.0010.00	Love Joy Coupler, 1-7/8" (Jaw)
8201.0006.00	Spider (Jaw)

FLOAT TANK

- 0.8 Gallon Tank
- 140° F Max
- Tank includes Lid
- Panel Mount
- **Box Qty 10**

Part#	Description
8108.8015.00	Tank with Inlet and Bulkhead MV #0210000010

FLOAT VALVES

A • **Box Qty 25** **B** • **Box Qty 50**

- 140° F Max.
- 3/4 Male Inlet

Part#	Description	
8107.2602.00	Valve, Brass, 105 PSI	**A**
8107.2601.00	Valve, Plastic, 145 PSI	**B**

FOAMER - MVF 808

- 1800 PSI
- 140° F
- 1/4" Female Inlet
- **Box Qty 5**

Part#	Description
8108.2610.00	Foamer, .09 Gal. Tank MV #0202001000

FOAMER - Professional FL 803

- 5.3 GPM
- 2900 PSI
- 140° F
- 1/4" Female Inlet
- **Box Qty 5**

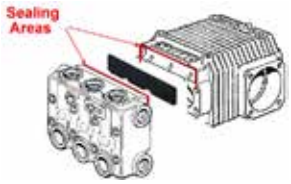
Part#	Description
8108.2611.00	Foamer, .26 Gal. Tank MV #0202001020
8108.2611.01	Filter MV #0120720040

FOAMER - Professional LS 10

- 6.5 GPM
- 3200 PSI
- 150° F
- 3/8" Male Inlet
- .5 Gal. Tank
- **Box Qty 5**

Part#	Description
8116.2609.00	Foamer

GASKET - Manifold



- Extra Protection Against a dirty Environment

Part#	Description
1201.0168.00	Seal for LW & ZW
1201.0167.00	Seal for FW & HW

GAUGES - Pressure

- 3/8" QD Brass Socket w/ Stainless Steel Collar
- 3/8" QD Brass Plug
- 1/4" FPT Gauge Port

Part#	Description
8102.0332.00	QD Gauge Fitting
8102.0340.00	QD Gauge Kit w/4000 PSI Gauge

GAUGES - Pressure

- Glycerin Filled
- 1/4" MNPT Inlet
- Stainless Steel Case
- 2-1/2" Diameter

Part #	Description
8106.0607.00	Gauge, 1500 PSI, Back Mount
8106.0602.00	Gauge, 2000 PSI, Back Mount
8106.0602.50	Clamp, Universal, Gauge
8106.0613.00	Gauge, 3000 PSI, Comet Logo
8106.0614.00	Gauge, 4000 PSI, Comet Logo
2141GXB5000	Gauge, 5000 PSI, Single Scale
8106.0616.00	Gauge, 5000 PSI, Back Mount
8106.0615.00	Gauge, 6000 PSI, Comet Logo
2241GXB6000	Gauge, 6000 PSI, Back Mount
2241GXB10000	Gauge, 10K PSI, Single Scale

***Gauges are Bottom Mount except where noted.**

GEAR REDUCERS - Gas Engine

- 2.2:1 Gear Ratio
- Helical Cut Gears
- Oil Ring Seal

Part #	Description	Drive Shaft	HP
5005.0207.00	Gear Reducer	1"	9-20
5005.0209.00	Gear Reducer	1-1/8"	9-20
5005.0236.00	Gear Reducer	1"	25
5005.0237.00	Gear Reducer	1-1/8"	25

GEAR REDUCERS - Gas Engine

8116.0204.00

Other Gear Boxes

- 2.176:1 Gear Ratio

Part #	Description	Drive Shaft	HP
8116.0200.00	24mm (.9449")	1-1/8"	18-24
8116.0206.00	24mm (.9449")	1-1/8"	24-31
8116.0201.00	24mm (.9449")	1"	18-24
8116.0204.00*	24mm (.9449")	1"	11-18
8116.0205.00	30mm (1.181")	1-1/8"	24-31
8116.0206.00	30mm (1.181")	1-1/8"	24-21
8116.0200.01	Spacer for 8116.0200.00 (4-per)		

***Honda Approved**

GFCI

- UL, CSA 120V/15A
- Accepts SJTW Cord

Part#	Description
0456.0116.00	GFCI, w/20' Cord
3038.0006.00	GFCI

GUNS - ML 710 & L 70

- 16 GPM
- 10,150 Max PSI
- 250° F Max

Part#	Description
8108.7605.00	Spray Gun, 3/8" F Inlet/Outlet MV #4013400000
8108.7605.01	Repair Kit, ML 710 MV #4019900049
8108.7102.00	Shoulder Support MV #4132300000
8108.7270.00	Lance Extension, L 70, 31" MV #4030500004
8108.7271.00	Lance Extension, L70, 47" MV #4030500005

GUNS - RL 600 SST

- 15.8 GPM @ 9500 PSI
- 210° F Max
- 3/8" F In/outlet
- AISI 303 Stainless Steel

Part#	Description
8116.1619.00	Spray Gun
8108.7102.00	Shoulder Support MV #4132300000

GUNS - RL 84

- 21 GPM @ 8100 PSI
- 210° F Max
- 1/2" F Inlet
- 1/2" F Outlet

Part#	Description
8116.1608.00	Spray Gun

GUNS-EXTENSION - RL 84

- 53 GPM @ 8100 PSI
- 109° F Max
- 1/2" Male Inlet
- 1/4" Female Outlet
- Stainless Steel AISI 304

Part#	Description
8116.1608.10	Lance Extension, 15.7"
8116.1603.10	Lance Extension, 31.5"
8116.1608.20	Lance Extension, 50"

GUNS - ML 510 & L 200

- 16 GPM @ 8100 PSI
- 250° F Max
- 1/2” F In/Out

Part#	Description
8108.8626.00	Spray Gun MV #4013300000
8108.7605.01	Repair Kit MV #4019900049
8108.7102.00	Shoulder Support MV #4132300000
8108.8625.01	Lance Ext L200 32” 1/2”M In, 1/4”F Out MV #4030500008
8108.8625.02	Lance Ext L200 48” 1/2”M In, 1/4”F Out MV #4030500009

GUNS - ML 960

- **Box Qty 20**

- 7.4 GPM @ 8000 PSI
- 320° F
- 3/8” F In, 1/4” F Out
- Stainless Steel
- Soft Touch Rubber Grip

Part#	Description
8108.8631.00	Spray Gun MV #4017000033
8108.8631.01	Repair Kit MV #4019900066

GUNS - RL 57

- 7.5 GPM @ 8100 PSI
- 320° F
- 3/8” F Inlet
- 1/4” F Outlet
- Stainless Steel 303

Part#	Description
8116.1616.00	Spray Gun

GUNS - ML 955

- **Box Qty 20**

- 10.6 GPM @ 5800 PSI
- 320° F
- 3/8” FPT Inlet
- 1/4” FPT Outlet
- Soft Touch Rubber Grip

Part#	Description
8108.8629.00	Spray Gun MV #4017000010
8108.8629.01	Repair Kit MV #4019900059

GUNS - AL 55

- **Box Qty 20**

- 12 GPM @ 5075 PSI
- 320° F
- 3/8” Female Inlet
- 1/4” Female Outlet

Part#	Description
8108.8623.00	Spray Gun MV #4012209010
8108.8623.01	Repair Kit MV #4019900011

GUNS - RL 56

- 8 GPM @ 5650 PSI
- 320° F
- 3/8” F Inlet
- 1/4” F Outlet

Part#	Description
8116.1612.00	Spray Gun, Compensated

GUNS - MV 951

- **Box Qty 20**

- 11 GPM @ 5075 PSI
- 300° F
- 3/8” Female Inlet
- 1/4” Female Outlet

Part#	Description
8108.1611.00	Spray Gun MV #4012206001
8108.1611.01	Repair Kit MV #0200103550

GUNS - Free Flow MV 951

- **Box Qty 20**

- 11 GPM @ 5075 PSI
- 300° F
- 3/8” Female Inlet
- 1/4” Female Outlet

Part#	Description
8108.1612.00	Spray Gun, Triggerless MV #4012906000

GUNS - Weep MV 951

- **Box Qty 20**

- 11 GPM @ 5075 PSI
- 300° F
- 3/8” F Inlet
- 1/4” F Outlet

Part#	Description
8108.8611.00	Spray Gun, Weep. Blue Trigger Lock MV #4012406003
8108.8611.01	Repair Kit, Weep MV #4019900001
8108.8612.00	Spray Gun, Low Pressure Weep, Green Trigger Lock MV #4012406004
8108.8612.01	Repair Kit, Low Pressure Weep MV #401990000

GUNS - Ceramic Ball MV 2012

- **Box Qty 10**

- 11 GPM @ 5075 PSI
- 320° F
- 3/8” F Inlet
- 1/4” F Outlet

Part#	Description
8108.8615.00	Spray Gun MV #4012203010
8108.8615.01	Repair Kit MV #4019900015

GUNS - MV 2012

- **Box Qty 20**
- 11 GPM @ 5075 PSI
- 320° F
- 3/8" F Inlet
- 1/4" F Outlet

Part#	Description
8108.8613.00	Spray Gun MV #4012203008
8108.8613.01	Repair Kit MV #4019900013

GUNS - ML 955

- **Box Qty 20**
- 10.6 GPM @ 5800 PSI
- 320° F
- SW Top 3/8" FPT Inlet
- G 1/4" F Outlet

Part#	Description
8108.8636.00	Spray Gun MV #4017000012
8108.8629.01	Repair Kit MV #4019900059

GUNS - Swivel MV 2002

- **Box Qty 20**
- 11 GPM @ 5075 PSI
- 320° F
- 3/8" F Inlet
- 1/4" F Outlet

Part#	Description
8108.8614.00	Spray Gun MV #4012303010
8108.8613.01	Repair Kit MV #4019900013

GUNS - RL 30

- 10.5 GPM @ 5000 PSI
- 320° F
- 3/8" FPT Inlet
- 1/4" FPT Outlet

Part#	Description
8116.1600.00	Spray Gun
8116.1614.00	Spray Gun, Ceramic Ball

GUNS - Horizontal

- 10.5 GPM @ 5000 PSI
- 210° F Max Temp.
- 3/8" FPT Inlet
- 1/4" FPT Outlet

Part#	Description
8102.1606.00	Spray Gun, Horizontal

GUNS - Linear 3 Horizontal

- **Box Qty 20**
- 10.5 GPM @ 5000 PSI
- 320° F
- 3/8" FPT Inlet
- 1/4" FPT Outlet

Part#	Description
8116.1615.00	Spray Gun, Horizontal

GUNS - MV 925

- **Box Qty 20**
- 8 GPM @ 4500 PSI
- 320° F
- 3/8" F Inlet
- 1/4" F Outlet

Part#	Description
8108.8617.00	Spray Gun, NPT MV #4012205005
8108.8624.00	Spray Gun MV #4012205002
8108.8618.00	Spray Gun, Swivel MV #4012305005
8108.8619.00	Spray Gun, Swivel, Heavy Duty MV #4012305011
8108.8617.01	Repair Kit MV #4019900025
8108.8620.00	Spray Gun, Weep MV #4012405005
8108.8620.01	Repair Kit MV #4019900032
8108.8621.00	Spray Gun, Weep, Low Pressure MV #4012405008
8108.8621.01	Repair Kit MV #4019900033

GUNS - MV 925 M22

- **Box Qty 20**
- 8 GPM @ 4500 PSI
- 320° F
- M22 x 1.5 M Inlet
- M22 x 1.5 M Outlet

Part#	Description
8108.8628.00	Spray Gun MV #4012205006
8108.8617.01	Repair Kit MV #4019900025

GUNS - Free Flow MV 925

- **Box Qty 20**
- 8 GPM @ 4500 PSI
- 320° F
- 3/8" F Inlet
- 1/4" F Outlet

Part#	Description
8108.8622.00	Spray Gun, Free Flow MV #4012905001
8108.8622.01	Repair Kit MV #4019900039

GUNS - ML 957

- **Box Qty 20**
- 13.2 GPM @ 4050 PSI
- 320° F
- 3/8” FPT Inlet
- 1/4” FPT Outlet
- Soft Touch Rubber Grip

Part#	Description
8108.8630.00	Spray Gun MV #4017000047
8108.8630.01	Repair Kit MV #4019900079

GUNS - RL 51

- 13.2 GPM @ 4050 PSI
- 320° F
- 3/8” F Inlet
- 1/4” F Outlet

Part#	Description
8116.1613.00	Spray Gun
8116.1613.02	Repair Kit

GUNS - MV 2006

Thumb wheel for high to low pressure adjustment

- **Box Qty 50**
- 8 GPM @ 3700 PSI
- 320° F
- 3/8” F Inlet
- 1/4” F Outlet

Part#	Description
8108.8600.00	Spray Gun MV #0200006120
8108.8601.01	Repair Kit MV #0200107110

GUNS - RL 204

- 53 GPM @ 3200 PSI
- 210° F
- 3/4” F Inlet
- 1/2” F Outlet

Part#	Description
8116.1607.00	Spray Gun
8116.1602.01	Repair Kit

GUNS-EXTENSION - RL 204

- 53 GPM @ 8100 PSI
- 109° F Max
- 1/2” M In, 1/4” F Out
- Stainless Steel AISI 304

Part#	Description
8116.1608.10	Lance Extension, 15.7”
8116.1603.10	Lance Extension, 31.5”
8116.1608.20	Lance Extension, 50”

GUNS - ML 210 & L200

- 53 GPM @ 3200 PSI
- 250° F
- 3/4” F Inlet
- 1/2” F Outlet

Part#	Description
8108.8625.00	Spray Gun MV #4014100002
8108.8625.03	Repair Kit MV #4019900052
8108.7102.00	Shoulder Support MV #4132300000
8108.8625.01	Lance L200, 32” MV # 4030500008
8108.8625.02	Lance L200, 48” MV #4030500009

GUNS - Front Entry-7027

- 10 GPM @ 3200 PSI
- 210° F
- Brass Valve Body
- 3/8” F Front Inlet
- 1/4” F Outlet

Part#	Description
SG-727	Spray Gun
8102.1601.01	Repair Kit

GUNS - ML 320 Front Entry

- 6.6 GPM @ 2600 PSI
- 212° F
- **Box QTY 20**

Part#	Description
8108.8632.00	Spray Gun, 1/4” M x 1/4” F MV #4013201002
8108.8633.00	Spray Gun, 3/8” FPT x 1/4” F MV #4013201005
8108.8632.01	Repair Kit ML 320 MV #419900083

GUNS - RL 124

- 32 GPM @ 1950 PSI
- 109° F
- 1/2” F Inlet
- 1/2” F Outlet

Part#	Description
8116.1609.00	Spray Gun
8116.1609.01	Repair Kit

GUNS-EXTENSION - RL 124

- 26.5 GPM @ 1950 PSI
- 109° F
- 1/2" M Inlet
- 1/4" F Outlet

Part#	Description
8116.1601.10	Lance Ext., 31.5", Zinc Plated Steel

GUNS LANCE - Molded

- 10.5 GPM @ 4000 PSI
- 300° F
- 3/8" F Inlet
- 22mm Outlet
- Brass Valve Body

Part#	Description
8102.1640.00	Gun Lance

GUN LANCE - MV 925

- **Box Qty 15**
- 8 GPM @ 4500 PSI
- 320° F
- 3/8" F Inlet
- M22F Outlet

Part#	Description
8108.8644.00	Spray Gun MV #4022105002
8108.8645.00	Spray Gun, Swivel Inlet MV #4022205000
8108.8646.00	Spray Gun, Swivel Inlet, Heavy Duty MV #4022205005
8108.8617.01	Repair Kit

GUN LANCE - Molded

- 8 GPM @ 4000 PSI
- 210° F Max
- 3/8" QC Plug Inlet
- 36" Lance w/1/4" QC Socket Outlet
- Holds Four Additional QC Nozzles
- Includes Side Grip Handle

Part#	Description
PK-SG-850X	Gun Lance Assembly

GUN LANCE - Molded, MV 2009

- 8 GPM @ 4000 PSI
- 212° F Max

Part#	Description
8108.7603.00	3/8" F Inlet x M22F Outlet MV #4021109010
8108.7604.00	M22M Inlet x M22F Outlet MV #4021109007

GUN LANCE - Molded, MV 920

- 7 GPM @ 4000 PSI
- 300° F Max
- **Box Qty 55**

Part#	Description
8108.7641.00	Weep, 3/8" F Inlet x 1/4" F Outlet MV #0200909290

GUN LANCE - Molded, Weep

- 8 GPM @ 4500 PSI
- 320° F Max
- 3/8" F Inlet, M22F Outlet

Part#	Description
8108.7653.00	Gun Lance MV #4022305000
8108.8620.01	Repair Kit MV #4019900032

GUN LANCE - w/Vari Spray

Nozzle Sold Separately

- **Box Qty 5**
- AL55 & LM25
- 12 GPM @ 3625 PSI
- 194° F Max
- SST AISI 304

Part#	Description
8108.7650.00	Gun Lance, 3/8" F x M15 x 1 F MV #44022409000
8108.7690.00	Nozzle, 1.2 Orifice, Flat Spray MV #8278001
8108.7691.00	Nozzle, 1.5 Orifice, Flat Spray MV #8278002
8108.7692.00	Nozzle, 1.8 Orifice, Flat Spray MV #8278003
8108.7693.00	Nozzle, 2.0 Orifice, Flat Spray MV #8278004
8108.7694.00	Nozzle, 2.3 Orifice, Flat Spray MV #8278005
8108.7695.00	Nozzle, 2.5 Orifice, Flat Spray MV #8278006
8108.7696.00	Nozzle, 3.0 Orifice, Flat Spray MV #8278007
8108.7697.00	Nozzle, 3.5 Orifice, Flat Spray MV #8278015

GUN LANCE - MV925 & MV70

- **Box Qty 15**
- 8 GPM @ 4500 PSI
- 320° F Max
- 3/8" FPT x M22F

Part#	Description
8108.7649.00	Gun Lance MV #4022105009

GUN LANCE - MV 925

- **Box Qty 15**
- 8 GPM @ 4500 PSI
- 320° F Max
- 3/8" FPT x 1/4" F Out

Part#	Description
8108.7654.00	Gun Lance MV #4022105006

GUN LANCE - Molded, MV 2008

- 7 GPM @ 3200 PSI
- 140° F Max
- Front Entry

Part#	Description
8108.9039.00	M22M Inlet x M22F Outlet MV #4020008003

GUNS LANCE - Jolly 25 & Nozzles

- 8 GPM
- 362 PSI w/Metal Nozzle
- 217 PSI w/Plastic Nozzle
- 125° F
- **Box Qty 10**

***Nozzles Sold Separately Below**

Part#	Description
8108.7222.00	Gun & Lance 36.5" SS AISI 316, EPDM O-Ring, Blue MV #4020009002
8108.7225.00	Gun & Lance 36.5" SS AISI 316, Viton O-Ring, Red MV #4020009006
8108.7228.00	Gun & Lance 36" PVC, EPDM O-Ring, Blue MV #4020009010
8108.7231.00	Gun & Lance 36" PVC, Viton O-Ring, Red MV #4020009014
8108.7210.00	Spraygun, EPDM O-Ring, 1/2"Fx1/2" M, Blue MV #4010007000
8108.7211.00	Spraygun, Viton O-Ring, 1/2"Fx1/2"M, Red MV #4010007001

Part#	Description
8108.7222.10	Nozzle, 80 Deg. 010 Orange MV #4059500018
8108.7222.15	Nozzle, 80 Deg. 015 Green MV #4059500019
8108.7222.20	Nozzle, 80 Deg. 020 Yellow MV #4059500012
8108.7222.30	Nozzle, 80 Deg. 030 Blue MV #4059500013
8108.7222.40	Nozzle, 80 Deg. 040 Red MV #4059500014
8108.7222.50	Nozzle, 80 Deg. 050 Brown MV #4059500015
8108.7222.60	Nozzle, 80 Deg. 060 Gray MV #4059500016
8108.7222.80	Nozzle, 80 Deg. 080 White MV #4059500017

GUN LANCE - Hobby Kit

- Front Load Gun @ 2950 PSI
- Molded 36" Split Lance
- Vari-Nozzle #3
- 25' x 1/4" 3000 PSI w/M22 Fitting
- 140° F Max Temp

Part#	Description
8102.2600.00	Gun/Lance

HOSE ASSEMBLIES - 4000 PSI

- 4000 PSI Max.
- 250° F, (275°F Intermittent)
- 3/8"M Solid x 3/8"M Swivel
- Bend Restrictor on Both Ends
- Single Wire

Part#	Description
8115.0840.00	4000-25, Black, 25'
8115.0841.00	4000-50, Black, 50'
8115.0842.00	4000-100, Black, 100'
8115.0846.00	4000-25, Non-Marking Gray, 25'
8115.0847.00	4000-50, Non-Marking Gray, 50'
8115.0848.00	4000-100, Non-Marking Gray, 100'

HOSE ASSEMBLIES - 6000 PSI

- 6000 PSI Max.
- 250° F, (275°F Intermittent)
- 3/8"M Solid x 3/8"M Swivel
- Bend Restrictor on Both Ends
- Double Wire

Part#	Description
8115.0854.00	6000-25, Black, 25'
50W2-H-BLK-6000	6000-50, Black, 50'
8115.0857.00	6000-100, Black, 100'
8115.0858.00	6000-25, Non-Marking Gray, 25'
8115.0859.00	6000-50, Non-Marking Gray, 50'
8115.0860.00	6000-100, Non-Marking Gray, 100'

HOSE ASSEMBLIES - 8000 PSI

- 8000 PSI Max.
- 250°F Max Temp
- 3/8"M Solid x 2
- Bend Restrictor on Both Ends
- Double Wire

Part#	Description
8115.0001.00	8000-50, Non-mark, Gray 3/8" Fittings
8115.0003.00	8000-100, Non-mark, Gray 3/8" Fittings
8115.0004.00	8000-200, Non-mark, Gray 3/8" Fittings

HOSE ASSEMBLIES - 10000 PSI

- 10000 PSI Max.
- 250° F Max Temp
- 3/8"M or 1/2" M Solid & Swivel
- Bend Restrictor on Both Ends
- Double Wire

Part#	Description
8115.0006.00	10000-50, non-mark, gray 3/8 fittings
8115.0008.00	10000-100, non-mark, gray 3/8 fittings
8115.0009.00	10000-200, non-mark, gray 3/8 fittings
8115.0011.00	10000-50, non-mark, gray 1/2 fittings
8115.0013.00	10000-100, non-mark, gray 1/2 fittings
8115.0014.00	10000-200, non-mark, gray 1/2 fittings
8115.0300.00	Coupler set, 3/8", 10000PSI
8115.0301.00	Coupler set, 1/2", 10,000PSI
8116.3505.00	Swivel, SS, 15.8GPM, 9750 PSI 3/8" F x 3/8" M

HOSE REELS - Black

HR-75

HR-100

8102.0802.00

- 160° F

Part#	Description
HR-75	Hose Reel, 4000 PSI, 75' 3/8" Hose
HR-100	Hose Reel, 4000 PSI, 100' 3/8" Hose
HR-200	Hose Reel, 4000 PSI, 200' 3/8" Hose

HOSE REEL - Swivel

8112.0804.00

- 4000 PSI
- 3/8" FNPT Inlet
- 3/8" MNPT Discharge

8112.0803.00

Part#	Description
8112.0804.00	Hose Reel 90° Swivel, 160° F Max
8112.0804.01	Repair kit
	For Hose Reel 8112.0802.00 & 8102.0802.00
HRS-6M6F	Swivel, 90°, 400° F Max

INJECTORS - Downstream

- Stainless Steel Insert
- Adjustable Chemical Injection
- 3500 PSI Max
- 212° F Max Temp
- 3/8" MPT Inlet x 3/8" MPT Outlet

Part#	Description	GPM
8402.2122.00	Injector, Adjustable 1.8 mm	2-3
8402.2123.00	Injector, Adjustable 2.1 mm	3-5
8402.2124.00	Injector, Adjustable 2.3 mm	5-8

INJECTORS - Downstream

MVR400

- Stainless Steel Insert
- Adjustable
- 4500 PSI
- 200°F
- 3/8" M In/Outlet

Part#	Description	GPM
8108.2129.00	MVR400-1.6 Adj. MV #0203004140	1 - 2
8108.2130.00	MVR400-1.8 Adj. MV #0203004150	2 - 3
8108.9061.00	MVR400-2.1 Adj. MV #0203004160	3 - 5
8108.2132.00	MVR400-2.3 Adj. MV #0203004170	5 - 8

INJECTORS - Downstream

MV400

MV410

MV420

MVR400

MVR410

MVR420

- Brass Insert
- 4500 PSI
- Adjustable or Fixed Flow
- 200° F
- **Box Qty 10**

Part#	Description	Inlet	Outlet	GPM
8108.2101.00	MV400-1.6 Fixed MV #0203004000	3/8"M	3/8"M	1-2
8108.2102.00	MV400-1.8 Fixed MV #0203004010	3/8"M	3/8"M	2-3
8108.2103.00	MV400-2.1 Fixed MV #0203004020	3/8"M	3/8"M	3-5
8108.2104.00	MV400-2.3 Fixed MV #0203004030	3/8"M	3/8"M	5-8
8108.2105.00	MV410-1.6 Fixed MV #0203005000	3/8"F	3/8"M	1-2
8108.2106.00	MV410-1.8 Fixed MV #0203005010	3/8"F	3/8"M	2-3
8108.2107.00	MV410-2.1 Fixed MV #0203005020	3/8"F	3/8"M	3-5
8108.2108.00	MV410-2.3 Fixed MV #0203005030	3/8"F	3/8"M	5-8
8108.9064.00	MV420-2.1 Fixed MV #0203006020	3/8"M	3/8"F	3-5
8108.2121.00	MVR400-1.6 Adj. MV #0203004100	3/8"M	3/8"M	1-2
8108.2122.00	MVR400-1.8 Adj. MV #0203004110	3/8"M	3/8"M	2-3
8108.2123.00	MVR400-2.1 Adj. MV #0203004120	3/8"M	3/8"M	3-5
8108.2124.00	MVR400-2.3 Adj. MV #0203004130	3/8"M	3/8"M	5-8
8108.2125.00	MVR410-1.6 Adj. MV #0203005100	3/8"F	3/8"M	1-2
8108.2126.00	MVR410-1.8 Adj. MV #0203005110	3/8"F	3/8"M	2-3
8108.2127.00	MVR410-2.1 Adj. MV #0203005120	3/8"F	3/8"M	3-5
8108.2128.00	MVR410-2.3 Adj. MV #0203005130	3/8"F	3/8"M	5-8
8108.9155.00	MVR420-1.8 Adj. MV #0203006110	3/8"M	3/8"F	2-3
8108.2147.00	MVR420-2.1 Adj. MV #0203006120	3/8"M	3/8"F	3-5
8108.2148.00	MVR420-2.3 Adj. MV #0203006130	3/8"M	3/8"F	5-8

INJECTORS - Downstream

- Brass Insert
- Adjustable Hose Barb
- 4500 PSI
- 200° F
- **Box Qty 10**

Part#	Description	Inlet	Outlet	GPM
8108.8200.00	MVR410-2.1 Adj. MV #0203005620	3/8"F	3/8"M	3-5
8108.8004.00	MVR400-2.1 Adj. MV #0203004620	3/8"M	3/8"M	3-5

INJECTORS - Twist Conn x M22

- 4100 PSI
- 300° F
- Twist Connect Inlet
- M22M Outlet

Part#	Description	GPM
8108.2151.00	Adj. Chem. Inj., 2.1 MV #0203007220	3-5
8108.2153.00	Adj. Chem. Inj., 2.3 MV #4080102000	5-8

INJECTORS - Quick Connect

- 3500 PSI Max
- 212° F Max Temp
- 3/8" QC Plug Inlet
- 3/8" QC Coupler Outlet
- Brass

Part#	Description	Inlet	Outlet
8402.2101.00	Injector, Adjustable	1.8mm	2-3
8402.2102.00	Injector, Adjustable	2.1mm	3-5
8402.2103.00	Injector, Adjustable	2.3mm	5-8

GUIDE FOR NOZZLE SELECTION

NOZZLE		RECOMMENDED FLOW	
MM	**In.**	**L/Min**	**GPM**
1.6	.06	5-8	1.3-2.1
1.8	.07	8-12	2.1-3.2
2.1	.08	10-15	2.6-4.0
2.3	.09	12-18	3.2-4.8

LANCES - Dual, Molded Chrome

- 11 GPM @ 4060 PSI
- 300° F
- 1/4" M Inlet x F Outlet
- Chrome Plated
- **Box Qty 10**

Part#	Description
8108.8100.00	Lance, 40" LD MV 30 MV #0202003020

LANCES - Dual Vented, Stainless

- 10.5 GPM
- 3600 PSI
- 300° F
- 1/4" M Inlet x F Outlet

Part#	Description
PK-202.059	Dual Lance, 42", AISI 304 SST MV #4030800012

LANCES - Dual Vented, Stainless

- 10.5 GPM
- 4000 PSI
- 300° F
- 1/4" M Inlet x F Outlet

Part#	Description
8402.1101.00	Dual Lance, 42" Stainless Steel

LANCES - Dual Vented, Zinc

- 10.5 GPM
- 4000 PSI
- 300° F
- 1/4" M Inlet x F Outlet

Part#	Description
8402.1100.00	Dual Lance, 40" Zinc Plated

LANCES - Dual

- 10.5 GPM
- 3000 PSI
- 284° F
- 1/4" M Inlet
- 1/8" F Outlet

Part#	Description
8110.1101.00	Molded Grip, 36"

LANCES - Dual

- 11 GPM
- 3600 PSI
- 300° F

Part#	Description
8108.8020.00	Dual Lance, 23", M22M Inlet MV #0202004691

LANCES - Dual w/Trigger

- 10.5 GPM
- 3600 PSI
- 300° F
- 1/4" M Inlet x F Outlet

Part#	Description
8107.1110.00	Vented Grip, w/Trigger

LANCES - Molded, Zinc, Straight

- 11 GPM
- 4000 PSI
- 300° F

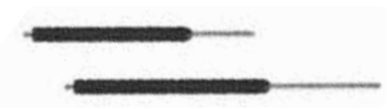
Part#	Description
8402.1200.00	Lance, Molded Grip 13"
8402.1201.00	Lance, Molded Grip 18"
8402.1202.00	Lance, Molded Grip 24"
8402.1203.00	Lance, Molded Grip 36"
8402.1204.00	Lance, Molded Grip 47"
8402.1205.00	Lance, Molded Grip 59"
8402.1206.00	Lance, Molded Grip 70"
8402.1207.00	Lance, Split Grip, 79"

LANCES - Molded, Zinc, Straight

- MV20/B
- 11 GPM
- 4060 PSI
- 300° F Max

Part#	Description	Box Qty
8108.1200.00	Lance, Molded Grip 13" MV #0202002000	20
8108.1201.00	Lance, Molded Grip 17" MV #0202002010	20
8108.1202.00	Lance, Molded Grip 24" MV #0202002040	20
8108.1203.00	Lance, Molded Grip 36" MV #0202002060	20
8108.1204.00	Lance, Molded Grip 47" MV #0202002080	20
8108.1205.00	Lance, Molded Grip 59" MV #0202002090	10
8108.1206.00	Lance, Molded Grip 70" MV #0202002110	10
8108.1207.00	Lance, Molded Grip 79" MV #0202002100	5

LANCES - Molded, Stainless



- SF 40
- 10.6 GPM @ 5075 PSI
- 320° F

Part#	Description		Qty
8108.7261.00	Lance, 19.6"	MV #4030300015	20
8108.7262.00	Lance, 27.5"	MV #4030300016	20
8108.7263.00	Lance, 35.4"	MV #4030300017	20
8108.7264.00	Lance, 47.2"	MV #4030300018	20
8108.7265.00	Lance, 59"	MV #4030300019	10
8108.7266.00	Lance, 70.8"	MV #4030300020	10
8108.7267.00	Lance, 78.7"	MV #4030300021	5

LANCES - Molded, Bent

- 10.5 GPM
- 4060 PSI
- 302° F Max.

Part #	Description	Qty
8107.1270.00	Lance, Molded, 28", Zinc Plated	10
8107.1271.00	Lance, Molded, 36", Zinc Plated	10
8107.1272.00	Lance, Molded, 47", Zinc Plated	10
8107.1273.00	Lance, Molded, 59", Zinc Plated	5
8107.1274.00	Lance, Molded, 67", Zinc Plated	5
8107.1275.00	Lance, Molded, 79", Zinc Plated	5
8107.1280.00	Lance, Molded, 28", SST	10
8107.1281.00	Lance, Molded, 36", SST	10
8107.1282.00	Lance, Molded, 47", SST	10
8107.1283.00	Lance, Molded, 59", SST	5
8107.1284.00	Lance, Molded, 67", SST	5
8107.1285.00	Lance, Molded, 79", SST	5

LANCES - Non-Molded, Zinc

- Seamless, Zinc Plated
- 10.5 GPM
- 4000 PSI
- 300° F
- **Box Qty 50**

Part #	Description
8402.1210.00	Lance, Non-Molded 12"
8402.1211.00	Lance, Non-Molded 18"
8402.1212.00	Lance, Non-Molded 24"
8402.1213.00	Lance, Non-Molded 36"
8402.1214.00	Lance, Non-Molded 48"
8402.1216.00	Lance, Non-Molded 59"

LANCES - Non-Molded, Zinc

- 12 GPM
- 5075 PSI
- 320° F

Part#	Description	Qty
8108.1210.00	Spray Lance, Non-Molded 13" MV #0113730050	50
8108.1211.00	Spray Lance, Non-Molded 18" MV #0113770000	50
8108.1212.00	Spray Lance, Non-Molded 24" MV #0113770070	50
8108.1213.00	Spray Lance, Non-Molded 36" MV #0113770080	50
8108.1214.00	Spray Lance, Non-Molded 48" MV #471111	10
8108.1216.00	Spray Lance, Non-Molded 59" MV #471112	10

LANCES - Non-Molded, Aluminium

- 11 GPM
- 4000 PSI
- 300° F

Part#	Description
8107.1222.00	Lance, Non-Molded 24”
8107.1223.00	Lance, Non-Molded 36”
8107.1224.00	Lance, Non-Molded 48”
8107.1225.00	Lance, Non-Molded 59”
8107.1226.00	Lance, Non-Molded 79”
8107.1227.00	Lance, Non-Molded 84”
8107.1228.00	Lance, Non-Molded 96”

LANCES - Vented, Bent

- 10.5 GPM
- 4060 PSI
- 302° F Max.
- 1/4” FPT Outlet
- Nozzle Holder & Protector

Part#	Description	Qty
8107.1250.00	Lance, Vented, 28”, Zinc Plated	**10**
8107.1251.00	Lance, Vented, 36”, Zinc Plated	**10**
8107.1252.00	Lance, Vented, 47”, Zinc Plated	**10**
8107.1253.00	Lance, Vented, 59”, Zinc Plated	**10**
8107.1254.00	Lance, Vented, 67”, Zinc Plated	**5**
8107.1255.00	Lance, Vented, 79”, Zinc Plated	**5**
8107.1260.00	Lance, Vented, 28”, SST	**10**
8107.1261.00	Lance, Vented, 36”, SST	**10**
8107.1262.00	Lance, Vented, 47”, SST	**10**
8107.1263.00	Lance, Vented, 59”, SST	**10**
8107.1264.00	Lance, Vented, 67”, SST	**5**
8107.1265.00	Lance, Vented, 79”, SST	**5**

LANCES - SF 40, Bent

- 10.6 GPM
- 5075 PSI
- 320° F
- 1/4” M Inlet & Outlet
- Stainless Steel
- Box Qty: 20

Part#	Description
8108.1230.00	Lance, Molded, 19.6” Bent MV #4030300026

LANCES - Vented, S3 400

- 10.5 GPM
- 6400 PSI
- 320° F
- 1/4” M Inlet
- 1/4” F Outlet

Part#	Description
8116.1230.00	47” Stainless Steel

LANCES - Vented, S3 350

- 8 GPM
- 5650 PSI
- 320° F
- 1/4” MPT Inlet
- 1/4” FPT Outlet
- **Box Qty 8**

Part#	Description
8116.1200.00	41” Stainless Steel

LANCES - Two Piece

- Industrial Grade
- 10.5 GPM
- 4000 PSI
- 300° F Max.
- Molded Grip
- 1/4” MPT x M22F Twist Connect
- Zinc Plated Pipe M22M x 1/4” MPT

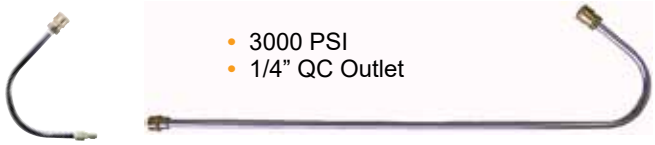
Part#	Description
8102.4100.00	36” Two Piece Lance w/Coupler

LANCES - Flex

- 10 GPM
- 2250 PSI
- 194° F

Part#	Description
8102.1900.00	Flex Lance, 18” 1/4”M x 1/4”M
8102.1901.00	Flex Lance, 18” 1/4”M x 1/8”F

LANCES - Gutter Cleaner



- 3000 PSI
- 1/4” QC Outlet

Part#	Description
8102.1653.00	Gutter Cleaner, 1/4” Plug Inlet, 7”
8102.1656.00	Gutter Cleaner, M22M Inlet, 29”

LANCES - Straight, M22

- Seamless, Chrome-Plated
- 10.5 GPM
- 4000 PSI
- 300° F Max.

Part#	Description
8102.1650.00	Lance, 18”, M22M x 1/4” FPT

LANCES - Extensions

- 8 GPM
- 3200 PSI
- 300° F
- M22M Inlet
- Hi-Lo Outlet
- Chrome Plated Steel

Part#	Description
8108.7252.00	Lance, 16.3” w/Idro-Jet Blue Dot MV #0202000740
8108.7253.00	Lance, 23.6” w/Idro-Jet No Dot MV #0202000750

LANCES - Side Handle

A B C

Part#	Description	
8102.1248.00	Rubber Handle for 1/4” Lance	A
8402.1249.00	Rubber Handle for 1/2” Lance	A
8102.1249.00	Rubber Handle with “C” Clamp	B
8102.1247.00	Plastic Handle with “C” Clamp	C
8102.1247.01	“C” Clamp	

LANCES - Telescoping

- Heavy Duty Pole
- 8 GPM
- 4000 PSI
- 200° F

Fiberglass

Part#	Description
PK-85206012	Wand, Yellow, 12-foot
PK-85206018	Wand, Yellow, 18-foot
PK-85206024	Wand, Yellow, 24-foot
8102.1003.60*	Four Section, 24-foot
PK-85400019	Telescoping Wand Support Belt

***Saves shipping cost for two or more**

Part#	Description
8102.1001.01	Gun, Screw-in, New Style
8102.1050.01	Repair Kit for New Style Gun
8102.1050.00	Gun, Glue-on, Old Style
8102.1054.00	Pole Lock, Large
8102.1001.04	Pole Lock, Small
8102.1002.30	Pole Lock, Large, Lever Lock
8102.1002.31	Pole Lock, Small, Lever Lock
8102.1001.10	Twist Connect Fitting
8102.1056.00	1/4” MNPT 8° Angled Plug

***Other Parts Available Upon Request**

LANCES - Extensions

- 4000 PSI
- 300° F
- M22M In x 1/4” M Out
- Stainless Steel

Part#	Description
8108.7251.00	Lance Extension, 18.5”, Stainless Steel MV #0202000700
8102.1651.00	Lance Extension, 18”, Zinc Plated Steel

LANCES - Wand Saver, Fitting

- 10 GPM
- 4000 PSI
- 212° F

Part#	Description
8402.1328.00	1/4” QC x 1/4” F

NOZZLE - Adjustable AN 25

- 8 GPM
- 4060 PSI
- 320° F
- **Box Qty 20**

Part#	Description
8108.9160.00	Nozzle, 1/4” F Inlet, 1/4” NPT Outlet MV #4050502000

NOZZLE - Adjustable, Tip Holder

- 3625 PSI
- 302° F
- 1/4” Threading
- Pressure Adjustment for Chemical Application
- **Box Qty 25**

Part#	Description
8402.1450.00	Spray Tip Holder w/o Protector
8402.1451.00	Spray Tip Holder with Protector

NOZZLE - Adjustable, Tip Holder

- 8 GPM @ 4060 PSI
- 320° F
- 1/4” Inlet/Outlet
- **Box Qty 15**

Part#	Description
8108.7450.00	Spray Tip Holder with Protector MV #0204009800

NOZZLE - Adjustable, Tip Holder

- 8 GPM @ 4050 PSI
- 320° F
- 1/4" FPT Inlet/Outlet
- **Box Qty 25**

Part#	Description
8116.1502.00	Nozzle, Adjustable, Tip Holder

NOZZLE - Protector PU

- **Box Qty 20**

- 16 GPM @ 5075 PSI
- 300° F
- Zinc Plated Steel Nozzle

Part#	Description
8108.8008.00	1/4" F x 1/4" F, Blue MV #4051200001

NOZZLE - Protector

- 300° F
- **Box Qty 20**

Part#	Description
8108.8002.00	Nozzle Protector MV #0183740020

NOZZLE - Protector

- 10.5 GPM
- 4000 PSI
- 300° F
- **Box Qty 50**

Part#	Description
8402.1452.00	Nozzle, 1/4" Inlet, 1/4" Outlet
8108.9159.00	Nozzle, 1/4" F Inlet, 1/8" F Outlet MV #0183000000

NOZZLE - Protector Kit M18

- 12 GPM
- 3600 PSI
- 300° F
- 1/4" F Inlet
- Viton O-Ring
- **Box Qty 10**

Part#	Description
8108.9024.00	Karcher Nozzle Holder MV #0183000080

NOZZLE - Protector MV 114

- 16 GPM
- 5075 PSI
- 300° F
- **Box Qty 20**

Part#	Description
8108.9151.00	Nozzle, 1/4" F Inlet, 1/4" F Outlet MV #0183000020

NOZZLE - Chemical & Soap

- Low Pressure

- Chemical Nozzle

Part#	Description
8113.3160.00	Nozzle 1/4" QC, 65°, #40, Brass
8102.2610.00	Nozzle 1/4" NPT 40°, #30, Brass

NOZZLES - MEG, 7250 PSI

0° **15°** **40°**

- 1/4" MPT
- **Box Qty 2**

Part#	Description	Orifice	Degree
8116.1038.40	Nozzle, MEG	038	40
8116.1040.00	Nozzle, MEG	040	0
8116.1040.15	Nozzle, MEG	040	15
8116.1049.40	Nozzle, MEG	049	40
8116.1050.00	Nozzle, MEG	050	0
8116.1050.15	Nozzle, MEG	050	15
8116.1055.00	Nozzle, MEG	055	0
8116.1055.15	Nozzle, MEG	055	15
8116.1055.40	Nozzle, MEG	055	40

***See Nozzle Formulas on Page 80 for Sizing**

NOZZLE - QC 5 Pack

- 5000 PSI Max

Part#	Description
8113.1030.99	Nozzle Kit 030
8113.1035.99	Nozzle Kit 035
8113.1040.99	Nozzle Kit 040
8113.1045.99	Nozzle Kit 045
8113.1050.99	Nozzle Kit 050
8113.1055.99	Nozzle Kit 055
8113.1060.99	Nozzle Kit 060

***Other sizes available upon request**

NOZZLE - QC & MEG

- 5000 PSI Max
- High Grade Stainless Steel
- 1/4" QC Plug or MEG Connector

Part#	Description
8113.1XXX.YY	Quick Disconnect Spray Nozzle
8114.1XXX.YY	MEG Spray Nozzle

***Complete Part # Using Table Below**

QC Nozzle Size Chart

Orifice	0° Red	15° Yellow	25° Green	40° White
2.0	1020.00	1020.15	1020.25	1020.40
2.5	1025.00	1025.15	1025.25	1025.40
3.0	1030.00	1030.15	1030.25	1030.40
3.5	1035.00	1035.15	1035.25	1035.40
4.0	1040.00	1040.15	1040.25	1040.40
4.5	1045.00	1045.15	1045.25	1045.40
5.0	1050.00	1050.15	1050.25	1050.40
5.5	1055.00	1055.15	1055.25	1055.40
6.0	1060.00	1060.15	1060.25	1060.40
6.5	1065.00	1065.15	1065.25	1065.40
7.0	1070.00	1070.15	1070.25	1070.40
7.5	1075.00	1075.15	1075.25	1075.40
8.0	1080.00	1080.15	1080.25	1080.40
8.5	1085.00	1085.15	1085.25	1085.40
9.0	1090.00	1090.15	1090.25	1090.40
9.5	1095.00	1095.15	1095.25	1095.40
10.0	1100.00	1100.15	1100.25	1100.40

NOZZLES - Rotating 2500

- Economy Rotating Nozzle
- 2500 PSI
- 140° F
- 1/4" F Inlet

Part#	Description
8111.1444.00	ROTOJET 025 Orifice, Lt. Green MV #0204007900
8111.1440.00	ROTOJET 030 Orifice, Yellow MV #0204007910
8111.1441.00	ROTOJET 035 Orifice, Black MV #0204007920
8111.1442.00	ROTOJET 040 Orifice, Blue MV #0204007930
8111.1443.00	ROTOJET 045 Orifice, Dk. Green MV #0204007940

NOZZLES - Rotating

- 4000 PSI
- 212° F
- 1/4" F Inlet

Part#	Description
8402.1401.50	Nozzle, 035
8402.1402.50	Nozzle, 040
8402.1403.50	Nozzle, 045
8402.1404.50	Nozzle, 050
8402.1405.50	Nozzle, 055
8402.1406.50	Nozzle, 060

NOZZLES - Rotating UR25

- 1.6 GPM Min (03-1150 PSI)
- 7.7 GPM Max (08-3600 PSI)
- 3650 PSI
- 212° F Max.
- 1/4" F Inlet
- **Box Qty 5**

Repair kits on page 89

Part#	Description	Orifice
8116.1430.00	UR Nozzle 3650-030	030
8116.1431.00	UR Nozzle 3650-035	035
8116.1432.00	UR Nozzle 3650-040	040
8116.1433.00	UR Nozzle 3650-045	045
8116.1434.00	UR Nozzle 3650-050	050
8116.1435.00	UR Nozzle 3650-055	055
8116.1436.00	UR Nozzle 3650-060	060
8116.1437.00	UR Nozzle 3650-065	065
8116.1438.00	UR Nozzle 3650-070	070
8116.1439.00	UR Nozzle 3650-080	080

NOZZLES - Rotating TPL

- 4060 PSI
- 194° F
- 1/4" F Inlet
- **Box Qty 5**

Part#	Description
8111.1470.00	Nozzle, 1.00, 028, Lilac MV #0204009900
8111.1471.00	Nozzle, 1.10, 033, Lt Green MV #0204009910
8111.1472.00	Nozzle, 1.20, 040, Dk Green MV #0204009920
8111.1473.00*	Nozzle, 1.30, 045, (Green) Dk Yellow MV #0204009930
8111.1474.00	Nozzle, 1.40, 053, Lt Brown MV #0204009940

***Color will change-old color in parenthesis**

NOZZLES - Rotating TPR255

- 3700 PSI
- 212° F Max.
- 1/4" F Inlet
- **Box Qty 5**

Part#	Description	Orifice
8111.1500.00	Nozzle, Rotating, G1/4 F MV #4060204000	020
8111.1501.00	Nozzle, Rotating, G1/4 F MV #4060204001	025
8111.1502.00	Nozzle, Rotating, G1/4 F MV #4060204002	030
8111.1503.00	Nozzle, Rotating, G1/4 F MV #4060204003	035
8111.1504.00	Nozzle, Rotating, G1/4 F MV #4060204004	040
8111.1505.00	Nozzle, Rotating, G1/4 F MV #4060204005	045
8111.1506.00	Nozzle, Rotating, G1/4 F MV #4060204006	050
8111.1507.00	Nozzle, Rotating, G1/4 F MV #4060204007	055
8111.1508.00	Nozzle, Rotating, G1/4 F MV #4060204008	060
8111.1509.00	Nozzle, Rotating, G1/4 F MV #4060204009	065
8111.1510.00	Nozzle, Rotating, G1/4 F MV #4060204010	070
8111.1511.00	Nozzle, Rotating, G1/4 F MV #4060204011	075
8111.1512.00	Nozzle, Rotating, G1/4 F MV #4060204012	080
8111.1700.00	Nozzle, Rotating, Yellow MV #4060204050	030
8111.1701.00	Nozzle, Rotating, Yellow MV #4060204051	040
8111.1702.00	Nozzle, Rotating, Yellow MV #4060204052	070

REPAIR KITS FOR TPR255

Part#	Orifice	MV#
8111.1500.01	020	4069900017
8111.1501.01	025	4069900018
8111.1502.01	030	4069900019
8111.1503.01	035	4069900020
8111.1504.01	040	4069900021
8111.1505.01	045	4069900022
8111.1506.01	050	4069900023
8111.1507.01	055	4069900024
8111.1508.01	060	4069900025
8111.1509.01	065	4069900026
8111.1510.01	070	4069900027
8111.1511.01	075	4069900028
8111.1512.01	080	4069900029

NOZZLES - Rotating 3700 PSI

- Concentrated Straight Stream in a Conical Pattern
- 3700 PSI
- 210° F Max.
- 1/4" F Inlet
- **Box Qty 5**

Part#	Description	Orifice
8111.1429.00	ROTOJET 3700-030 MV #0204007320	030
8111.1430.00	ROTOJET 3700-035 MV #0204007330	035
8111.1431.00	ROTOJET 3700-040 MV #0204007340	040
8111.1432.00	ROTOJET 3700-045 MV #0204007350	045
8111.1433.00	ROTOJET 3700-050 MV #0204007360	050
8111.1434.00	ROTOJET 3700-055 MV #0204007370	055
8111.1435.00	ROTOJET 3700-060 MV #0204007380	060
8108.9092.00	ROTOJET 3700-065 MV #0204007390	065
8108.9093.00	ROTOJET 3700-070 MV #0204007400	070
8111.1436.00	ROTOJET 3700-080 MV #0204007420	080

ROTOJET 3700 REPAIR KITS

Part#	Orifice	MV#
8111.1429.01	030	0204107320
8111.1430.01	035	0204107330
8111.1431.01	040	0204107340
8111.1432.01	045	0204107350
8111.1433.01	050	0204107360
8111.1434.01	055	0204107370
8111.1435.01	060	0204107380
8108.9111.00	065	0204107390
8108.9112.00	070	0204107400
8111.1436.01	080	0204107420

NOZZLES - Rotating 4500 PSI

- Concentrated Straight Stream in a Conical Pattern
- 4500 PSI
- 210° F Max.
- 1/4" F Inlet
- **Box Qty 5**

Part#	Description	Orifice
8111.1456.00	ROTOJET 4500-030 MV #0204006500	030
8111.1457.00	ROTOJET 4500-035 MV #0204006505	035
8111.1450.00	ROTOJET 4500-040 MV #0204006510	040
8111.1451.00	ROTOJET 4500-045 MV #0204006515	045
8111.1452.00	ROTOJET 4500-050 MV #0204006520	050
8111.1453.00	ROTOJET 4500-055 MV #0204006525	055
8111.1454.00	ROTOJET 4500-060 MV #0204006530	060
8108.9083.00	ROTOJET 4500-065 MV #0204006535	065
8111.1455.00	ROTOJET 4500-070 MV #0204006540	070

ROTOJET 4500 REPAIR KITS

Part#	Orifice	MV#
8111.1456.01	030	0204106500
8111.1457.01	035	0204106505
8111.1450.01	040	0204106510
8111.1451.01	045	0204106515
8111.1452.01	050	0204106520
8111.1453.01	055	0204106525
8111.1454.01	060	0204106530
8111.1455.01	070	0204106540

NOZZLES - Soap

- Sprays up to 30'
- 1/4" QC
- See Descriptions for Sizing

Part#	Description
PK-85210009	Nozzle, soap, long range

NOZZLES - Rotating TPR350

- 5075 PSI
- 212° F Max.
- 1/4" F Inlet
- **Box Qty 5**

Part#	Description	Orifice
8111.1513.00	Nozzle, Rotating, G1/4 F MV #4060303000	020
8111.1514.00	Nozzle, Rotating, G1/4 F MV #4060303001	025
8111.1515.00	Nozzle, Rotating, G1/4 F MV #4060303002	030
8111.1516.00	Nozzle, Rotating, G1/4 F MV #4060303003	035
8111.1517.00	Nozzle, Rotating, G1/4 F MV #4060303004	040
8111.1518.00	Nozzle, Rotating, G1/4 F MV #4060303005	045
8111.1519.00	Nozzle, Rotating, G1/4 F MV #4060303006	050
8111.1520.00	Nozzle, Rotating, G1/4 F MV #4060303007	055
8111.1521.00	Nozzle, Rotating, G1/4 F MV #4060303008	060
8111.1522.00	Nozzle, Rotating, G1/4 F MV #4060303009	065
8111.1523.00	Nozzle, Rotating, G1/4 F MV #4060303010	070
8111.1524.00	Nozzle, Rotating, G1/4 F MV #4060303011	075
8111.1525.00	Nozzle, Rotating, G1/4 F MV #4060303012	080

REPAIR KITS FOR TPR350

Part#	Orifice	MV#
8111.1513.01	020	4069900034
8111.1514.01	025	4069900035
8111.1515.01	030	4069900036
8111.1516.01	035	4069900037
8111.1517.01	040	4069900038
8111.1518.01	045	4069900039
8111.1519.01	050	4069900040
8111.1520.01	055	4069900041
8111.1521.01	060	4069900042
8111.1522.01	065	4069900043
8111.1523.01	070	4069900044
8111.1524.01	075	4069900045
8111.1525.01	080	4069900046

NOZZLES - Rotating TPR400

- 5800 PSI
- 212° F Max.
- 1/4" F Inlet
- **Box Qty 5**

Part#	Description	Orifice
8111.1526.00	Nozzle, Rotating, G1/4 F MV #4060401000	020
8111.1527.00	Nozzle, Rotating, G1/4 F MV #4060401001	025
8111.1528.00	Nozzle, Rotating, G1/4 F MV #4060401002	030
8111.1529.00	Nozzle, Rotating, G1/4 F MV #4060401003	035
8111.1530.00	Nozzle, Rotating, G1/4 F MV #4060401004	040
8111.1531.00	Nozzle, Rotating, G1/4 F MV #4060401005	045
8111.1532.00	Nozzle, Rotating, G1/4 F MV #4060401006	050
8111.1533.00	Nozzle, Rotating, G1/4 F MV #4060401007	055
8111.1534.00	Nozzle, Rotating, G1/4 F MV #4060401008	060
8111.1535.00	Nozzle, Rotating, G1/4 F MV #4060401009	065
8111.1536.00	Nozzle, Rotating, G1/4 F MV #4060401010	070
8111.1537.00	Nozzle, Rotating, G1/4 F MV #4060401011	075
8111.1538.00	Nozzle, Rotating, G1/4 F MV #4060401012	080
8111.1570.00	Nozzle, Rotating, G1/4 F MV #4060401014	100
8111.1571.00	Nozzle, Rotating, G1/4 F MV #4060401016	120

REPAIR KITS FOR TPR400

Part#	Orifice	MV#
8111.1526.01	020	4069900051
8111.1527.01	025	4069900052
8111.1528.01	030	4069900053
8111.1529.01	035	4069900054
8111.1530.01	040	4069900055
8111.1531.01	045	4069900056
8111.1532.01	050	4069900057
8111.1533.01	055	4069900058
8111.1534.01	060	4069900059
8111.1535.01	065	4069900060
8111.1536.01	070	4069900061
8111.1537.01	075	4069900062
8111.1538.01	080	4069900063
8111.1570.01	100	4069900065
8111.1571.01	120	4069900067

NOZZLES - Rotating TPR400 1/2"

- 5800 PSI
- 212° F Max.
- 1/2" F Inlet
- **Box Qty 5**

Part#	Description	Orifice
8111.1606.00	Nozzle, Rotating, G1/2 F MV #4068000008	050
8111.1608.00	Nozzle, Rotating, G1/2 F MV #4068000009	060
8111.1612.00	Nozzle, Rotating, G1/2 F MV #4068000003	080
8111.1616.00	Nozzle, Rotating, G1/2 F MV #4068000005	100
8111.1618.00	Nozzle, Rotating, G1/2 F MV #4068000007	120

REPAIR KITS FOR TPR400 1/2"

Part#	Orifice	MV#
8111.1532.01	050	4069900057
8111.1534.01	060	4069900059
8111.1538.01	080	4069900063
8111.1570.01	100	4069900065
8111.1571.01	120	4069900067

NOZZLES - Rotating 5800 PSI

- 5800 PSI
- 200° F Max.
- 1/4" F Inlet
- **Box Qty 5**

- Concentrated Straight Stream in a Conical Pattern

Part#	Orifice	MV#
8111.1400.00	030	0204006900
8111.1401.00	035	0204006905
8111.1402.00	040	0204006910
8111.1403.00	045	0204006915
8111.1404.00	050	0204006920
8111.1405.00	055	0204006925
8111.1406.00	060	0204006930
8108.9087.00	065	0204006935
8111.1407.00	070	0204006940
8108.9088.00	075	0204006945
8111.1408.00	080	0204006950
8111.1410.00	090	0204006960
8111.1411.00	100	0204006970
8111.1412.00	110	0204006980
8111.1409.00	120	0204006990
8108.7001.00	140	0204007010
8111.1413.00	150	0204007020
8108.9090.00	200	0204007070

REPAIR KITS - Rotating 5800

Part#	Orifice	MV#
8111.1400.01	030	0204106900
8111.1401.01	035	0204106905
8111.1402.01	040	0204106910
8111.1403.01	045	0204106915
8111.1404.01	050	0204106920
8111.1405.01	055	0204106925
8111.1406.01	060	0204106930
8108.9107.00	065	0204106935
8111.1407.01	070	0204106940
8108.9108.00	075	0204106945
8111.1408.01	080	0204106950
8111.1410.01	090	0204106960
8111.1411.01	100	0204106970
8111.1412.01	110	0204106980
8111.1409.01	120	0204106990
8108.7001.01	140	0204107010
8111.1413.01	150	0204107020
8108.9109.00	200	0204107070

REPAIR KITS - Rotating TPR600

Part#	Orifice	MV#
8111.1539.01	020	4069900068
8111.1540.01	025	4069900069
8111.1541.01	030	4069900070
8111.1542.01	035	4069900071
8111.1543.01	040	4069900072
8111.1544.01	045	4069900073
8111.1545.01	050	4069900074
8111.1546.01	055	4069900075
8111.1547.01	060	4069900076
8111.1548.01	065	4069900077
8111.1549.01	070	4069900078
8111.1550.01	075	4069900079

NOZZLES - Rotating TPR600

- 8700 PSI
- 2175 PSI Min Op. Pressure
- 212° F Max.
- 1/4” F Inlet

Part#	Description	Orifice
8111.1539.00	Nozzle, Rotating, G1/4 F MV #4060600017	020
8111.1540.00	Nozzle, Rotating, G1/4 F MV #4060600018	025
8111.1541.00	Nozzle, Rotating, G1/4 F MV #4060600019	030
8111.1542.00	Nozzle, Rotating, G1/4 F MV #4060600020	035
8111.1543.00	Nozzle, Rotating, G1/4 F MV #4060600021	040
8111.1544.00	Nozzle, Rotating, G1/4 F MV #4060600022	045
8111.1545.00	Nozzle, Rotating, G1/4 F MV #4060600023	050
8111.1546.00	Nozzle, Rotating, G1/4 F MV #4060600024	055
8111.1547.00	Nozzle, Rotating, G1/4 F MV #4060600025	060
8111.1548.00	Nozzle, Rotating, G1/4 F MV #4060600026	065
8111.1549.00	Nozzle, Rotating, G1/4 F MV #4060600027	070
8111.1550.00	Nozzle, Rotating, G1/4 F MV #4060600028	075

NOZZLES - Rotating TPR800

- 11,600 PSI
- 2900 PSI Min Op. Pressure
- 212° F Max.
- 1/4” F Inlet

Part#	Description	Orifice
8111.1551.00	Nozzle, Rotating, G1/4 F MV #4060700000	020
8111.1552.00	Nozzle, Rotating, G1/4 F MV #4060700001	025
8111.1553.00	Nozzle, Rotating, G1/4 F MV #4060700002	030
8111.1554.00	Nozzle, Rotating, G1/4 F MV #4060700003	035
8111.1555.00	Nozzle, Rotating, G1/4 F MV #4060700004	040
8111.1556.00	Nozzle, Rotating, G1/4 F MV #4060700005	045
8111.1557.00	Nozzle, Rotating, G1/4 F MV #4060700006	050
8111.1558.00	Nozzle, Rotating, G1/4 F MV #4060700007	055
8111.1559.00	Nozzle, Rotating, G1/4 F MV #4060700008	060
8111.1560.00	Nozzle, Rotating, G1/4 F MV #4060700009	065
8111.1561.00	Nozzle, Rotating, G1/4 F MV #4060700010	070
8111.1562.00	Nozzle, Rotating, G1/4 F MV #4060700011	075

REPAIR KITS - Rotating TPR800

Part#	Description	MV#
8111.1551.01	Repair Kit, 020	4069900080
8111.1552.01	Repair Kit, 025	4069900081
8111.1553.01	Repair Kit, 030	4069900082
8111.1554.01	Repair Kit, 035	4069900083
8111.1555.01	Repair Kit, 040	4069900084
8111.1556.01	Repair Kit, 045	4069900085
8111.1557.01	Repair Kit, 050	4069900086
8111.1558.01	Repair Kit, 055	4069900087
8111.1559.01	Repair Kit, 060	4069900088
8111.1560.01	Repair Kit, 065	4069900089
8111.1561.01	Repair Kit, 070	4069900090
8111.1562.01	Repair Kit, 075	4069900091

NOZZLES - Rotating UR32

- 2.4 GPM Min (03-2600 PSI)
- 9.0 GPM Max (08-5100 PSI)
- 5100 PSI
- 212° F Max.
- 1/4" F Inlet
- **Box Qty 5**

Part#	Description	Orifice
8116.1450.00	UR Nozzle 5100-030	030
8116.1451.00	UR Nozzle 5100-035	035
8116.1452.00	UR Nozzle 5100-040	040
8116.1453.00	UR Nozzle 5100-045	045
8116.1454.00	UR Nozzle 5100-050	050
8116.1455.00	UR Nozzle 5100-055	055
8116.1456.00	UR Nozzle 5100-060	060
8116.1457.00	UR Nozzle 5100-065	065
8116.1458.00	UR Nozzle 5100-070	070
8116.1459.00	UR Nozzle 5100-080	080

REPAIR KITS - Rotating UR32

Part#	Description	Orifice
8116.1430.01	UR Nozzle Repair Kit	030
8116.1431.01	UR Nozzle Repair Kit	035
8116.1432.01	UR Nozzle Repair Kit	040
8116.1433.01	UR Nozzle Repair Kit	045
8116.1434.01	UR Nozzle Repair Kit	050
8116.1435.01	UR Nozzle Repair Kit	055
8116.1436.01	UR Nozzle Repair Kit	060
8116.1437.01	UR Nozzle Repair Kit	065
8116.1438.01	UR Nozzle Repair Kit	070
8116.1439.01	UR Nozzle Repair Kit	080

NOZZLES - Idro-Jet 2 Vari HI/Lo

- 8 GPM
- 3200 PSI
- 300° F Max.
- **Box Qty 10**
- Twist Spray Angle Adjustment
- Push/Pull Pressure Adjustment
- Orifices change .00 to .01
- Dots change .00 to .02

Part#	Description
8108.1419.00	Nozzle Replacement Body MV #0204200040
8108.1420.00	030 Orifice, Yellow Dot MV #0204008000
8108.1421.00	035 Orifice, White Dot MV #0204008010
8108.1422.00	037 Orifice, Red Dot MV #0204008020
8108.1423.00	040 Orifice, Blue Dot MV #0204008030
8108.1424.00	042 Orifice, Brown Dot MV #0204008040
8108.1425.00	045 Orifice, Orange Dot MV #0204008050
8108.1426.00	050 Orifice, Green Dot MV #0204008060
8108.1427.00	055 Orifice, Lt. Blue Dot MV #0204008070
8108.1428.00	058 Orifice, Black Dot MV #0204008080
8108.1429.00	060 Orifice, Gray Dot MV #0204008090
8108.1430.00	065 Orifice, Dk. Green Dot MV #0204008100
8108.14XX.01	Orifice for HiLo Nozzles
8108.14XX.02	Dots for HiLo Nozzles

NOZZLES - Sewer

- 300° F
- Stainless Steel
- Forward Blast to Clear Debris
- Backward Blast to Flush

Part#	Description
8108.3009.00	1/4 FPT, 5000 PSI, Size #4.0 MV #0124722240
8402.3010.00	1/4 FPT, 4000 PSI, Size #4.5
8402.3011.00	1/4 FPT, 4000 PSI, Size #6.5
8402.3012.00	1/4 FPT, 4000 PSI, Size #11
8108.3109.00	1/8 FPT, 5000 PSI, Size #4.0 MV #0124722200
8402.3110.00	1/8 FPT, 4000 PSI, Size #4.5
8402.3111.00	1/8 FPT, 4000 PSI, Size #6.5
8402.3112.00	1/8 FPT, 4000 PSI, Size #11

NOZZLES - Sewer ST4

- 5100 PSI
- Stainless Steel 303
- 3/8" F
- 4 Ports
- **Box Qty 3**

Part#	Description
8116.3000.00	Nozzle Size 03
8116.3001.00	Nozzle Size 04
8116.3002.00	Nozzle Size 05
8116.3003.00	Nozzle Size 06
8116.3004.00	Nozzle Size 07
8116.3005.00	Nozzle Size 08

NOZZLES - Reaction Nozzles

****Other Sizes Available****
Upon Request

- 4350 PSI
- 320° F Max.

- Connection G ¾" F
- Side Nozzles 6 – M 6 x 8
- Front Nozzle 1 – M 6 x 8
- Nozzle size 30
- Nickel-Plated Steel

Part#	Description
8108.3002.00	Nozzle, SN MV #4052600005

- Connection G ¾" F
- Side Nozzles 6 – M 6 x 8
- Front Nozzle 1 – M 6 x 8
- Nozzle size 30
- Nickel-Plated Steel

Part#	Description
8108.3008.00	Nozzle, SNO MV #4052600017

- Connection G ¾" F
- Side Nozzles 6 – M 6 x 8
- Front Nozzle 4 – M 6 x 8
- Nozzle size 30
- Nickel-Plated Steel

Part#	Description
8108.3005.00	Nozzle, SNT MV #4052600011

- Connection G 1" F
- Side Nozzles 6 – M 6 x 6
- Front Nozzle 4 – M 6 x 6
- Nozzle size 70
- Stainless Steel AISI A420

Part#	Description
8108.3021.00	Nozzle, SNDH MV #4052800014
8108.3050.00	Self-centering guide, 1" Connection MV #G01000023

- Connection G 1" F
- Side Nozzles 6 – M 6 x 6
- Front Nozzle 4 – M 6 x 6
- Nozzle size 70
- Stainless Steel AISI A420

Part#	Description
8108.3015.00	Nozzle, SNCH MV #4052800005
8108.3050.00	Self-centering guide, 1" Connection MV #G01000023

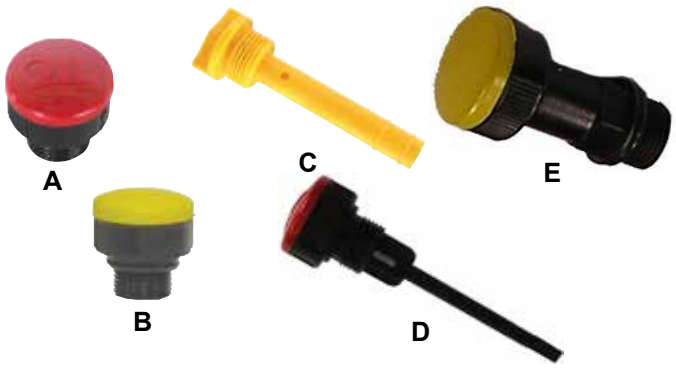
OIL - Comet Pumps

- Specially Formulated for use in all High-Pressure Industrial Piston Pumps
- Universal Tractor Transmission Oil (UTTO)
- 30 Wt. Non-Detergent & Non-Foaming

Part#	Description
8102.1801.00	Pump Oil, 32 oz. Bottle

Comet Industrial Pump Oil is a special formulated non-detergent, non-foaming oil, which is AW100 rated for superior oxidation protection. Comet recommends changing pump oil after the initial 50 hours of operation and every 300 hours thereafter.

OIL CAPS & DIPSTICKS



Part#	Description	
3200.0071.00	Oil Cap, AX	A
3200.0086.00	Oil Cap, BX	B
3200.0051.00	Dipstick, LW, ZW, FW, HW, RW	C
3200.0075.00	Dipstick, SW & TW	D
3200.0138.00	Oil Cap, Vented, Long, BXD	E

PACKING EXTRACTOR

- For Comet™ Pumps
- Slide Hammer

Part#	Description
0899.0004.00	Extractor Tool, 15 & 18mm
0899.0005.00	Extractor Tool, 20, 22 & 25mm
0899.0006.00	Extractor Hammer
0899.0007.00	Extractor Kit

PACKING INSERTION

- Increase Efficiency in Pump Repair
- Industrial Grade Materials

Part#	Description
3335.0023.00	Packing Kit LW, ZW, FW & HW

PULSATION DAMPENERS

- 3045 PSI
- 580 PSI Precharge
- 176° F Max.

Part#	Description
8107.3200.00	Accumulator, .02 Gal., 3/8" FPT Flow 0-6.6 GPM
8107.3201.00	Accumulator, .09 Gal., 1/2" FPT Flow 6.6-18.5 GPM
8107.3202.00	Accumulator, .09 Gal., 3/8" FPT Flow 6.6-18.5 GPM

PUMP RAIL KITS

Part#	Description	Ht
5011.0184.00	Rail Kit for LW	1-3/8"
5011.0216.00	Tall Rail Kit for LW	2-1/2"
5011.0185.00	Rail Kit for FW & HW	1"
5011.0229.00	Rail Kit for RW	1-3/8"
5011.0214.00	Rail Kit for SW & TW	1-3/8"
5011.0257.00	Tall Rail Kit for RW	2-1/2"
5011.0278.00	Tall Rail Kit for SW & TW	2-1/2"

SAND BLASTER - Wet, Industrial

- 10 GPM Maximum
- 3 GPM Minimum
- Up to 3500 PSI use 15° tip
- 3500–5500 PSI use 0° tip
- 1500 PSI Minimum Working Pressure

***Other replacement parts available upon request**

Part#	Description
8103.1901.00	Wet Sand Blast Kit, Complete
8103.1903.00	Tungsten Carbide Nozzle
8103.1913.00	Tip Adapter

SAND BLASTER - Commercial

- 11 GPM
- 3600 PSI
- 200°

***Other replacement parts available upon request**

Part#	Description
8108.1901.00	TS33-1.4 Head Assy 1.4 mm MV #0204005020
8108.1903.00	TS33-1.6 Head Assy 1.6 mm MV #0204005040
8108.1905.00	Sand Blast Suction Tube MV #0213000000
8108.1902.02	Pressure Nozzle, 1.5 mm MV #0124720330
8108.1902.01	Alignment Nozzle, 1.5 mm MV #0124710270

SLUDGE PUMPS

- 4.8 GPM
- 3700 PSI
- 300° F Max.
- 20' Hose; 35mm ID

Part#	Description
8000.4000.35	Sludge Pump, 035 Nozzle MV #0213000500
8000.4000.40	Sludge Pump, 040 Nozzle
8000.4000.45	Sludge Pump, 045 Nozzle MV #0213000510
8000.4000.50	Sludge Pump, 050 Nozzle MV #0213000520
8000.4000.55	Sludge Pump, 055 Nozzle MV #0213000530

Part#	Description
	Sludge Pumps Without Hose
8108.7019.00	Sludge Pump, 035 w/o Hose MV #0213000600
8108.9132.00	Sludge Pump, 045 w/o Hose MV #0213000610
8108.7020.00	Sludge Pump, 050 w/o Hose MV #0213000620
8108.9133.00	Sludge Pump, 055 w/o Hose MV #0213000630
8108.7021.00	Sludge Pump, 060 w/o Hose MV #0213000640
8000.4000.90	Clamp
8000.4000.95*	Hose, Sludge Pump

***Can be ordered to specific length up to 100'**

SURFACE CLEANER - 14”

- 8 GPM
- 4000 PSI Max
- 180° F
- Under 2500 PSI Opimal

Part#	Description
PK-1400WAW	Surface Cleaner, 14”

SURFACE CLEANER - Whirl-A-Way

- 8 GPM Max.
- 4000 PSI Max.
- 180° F
- UV Resistant Dome
- Rebuildable Swivel
- Industrial Duty

Part#	Description
8102.2401.00	Surface Cleaner, 16” Dia., w/Brush
	Replacement Parts
8102.2454.00	16 Rotary Head
8102.2470.01	Trigger Gun 16
8102.2461.00	Replacement Hose

***For additional parts contact Comet**

SURFACE CLEANER - 3000 PSI

- 4 GPM
- 3000 PSI
- 140° F
- M22M Inlet
- 035 Nozzle

Part#	Description
8108.8012.00	Surface Cleaner, w/Wheels MV #0207002013
8108.8012.01	Nozzle, Surface Cleaner 15015 MV #0124720842
8108.8010.00	Surface Cleaner, No Wheels MV #0207000013
8108.9006.00	Spray Bar, Surface Cleaner 045 MV #0109000340
8108.8014.00	Wheel Replacement Kit MV #0207102010
8108.8013.00	Wheel Conversion Kit MV #0207102000
8108.9008.00	Brush for 8108.8012.00 MV #0109740160
8108.9007.00	Brush for 8108.8010.00 MV #0109740090

SURFACE CLEANER - SC 15

- 3 GPM, 3200 PSI
- 140° F Max Fluid
- Quick Connect Inlet
- 035 Nozzle

Part#	Description
8108.8029.00	Surface Cleaner MV #4110100020
8108.8029.00	Repair Kit MV #411990005
8108.8029.02	Connector SC15, AR1-M22 x 1.5F MV #4119900003
8108.8029.03	Connector SC15, AR1-M22 x 1.5F MV #4119900004

SWITCHES - Pressure PS6

Box Qty 20

- 3-Wire Design, 47” Cable
- 4060 PSI
- 195° F Max Fluid
- 167° F Max Environment
- 12v - 250v, 16 (6) Amp
- 218, 363 & 652 PSI Activation Switching Pressure

Part#	Description
8108.2203.00	Switch, 218 PSI, 1/4” M, Blue MV #0205007000
8108.2204.00	Switch, 218 PSI, 3/8” M, Blue MV #4090002001
8108.2205.00	Switch, 363 PSI, 1/4” M, Red MV #0205007010
8108.2206.00	Switch, 363 PSI, 3/8” M, Red MV #0205007030
8108.2207.00	Switch, 652 PSI, 1/4” M, Black MV #0205007020
8108.2208.00	Switch, 652 PSI, 3/8” M, Black MV #0205007040

SWITCHES - Pressure PR16

Box Qty 20

- 4050 PSI
- 165° F
- 12v - 250v, 16 Amp
- 580 PSI Switching Pressure
- 47” Cable

Part#	Description
8116.2203.00	Switch, 3/8” M Inlet, Black

SWITCHES - Flow, MV 70

Box Qty 20

- 8 GPM, 8122 PSI
- 176° F Max Fluid
- 167° F Max Environment
- 12v - 250v, 3 Amp, 120 VA
- 3/8” F In/Outlet, 62” Cable

Part#	Description
8108.2216.00	Flow Switch, Horizontal MV #4090200000

SWITCHES - Pressure PS60

Box Qty 5

Stainless Steel AISI 303

- 9575 PSI
- 195° F Max Fluid
- 167° F Max Environment
- 12v - 250v, 16 (6) Amp
- Cable Length 47.24”
- 3/8” Connection

Part#	Description
8108.2214.00	Activation PSI 362.5 MV #4090003000
8108.2215.00	Activation PSI 652.5 MV #4090003001

SWITCHES - Flow FL 7 SS

- 8 GPM @ 8120 PSI
- 165° F Max Fluid
- 230v, 3 Amp
- 3/8” F in/out, 49” Cable
- Stainless Steel 303

Part#	Description
8116.2213.00	Flow Switch

SWITCHES - Flow, MV 60 P140

Box Qty 20

- 8 GPM, 5660 PSI
- 176° F Max Fluid
- 167° F Max Environment
- 12v - 250v, 3 Amp, 120 VA
- 3/8" F In/Outlet, 62" Cable

Part#	Description	Min Flow Activation
8108.2211.00	Flow Switch, MV #4090200002	Horizontal - Vertical 1.6GPM - 2.4GPM
8108.2210.00	Flow Switch, MV #4090200001	Vertical 1.0GPM
8108.2209.00	Replacement Reed Switch MV #0199700000	

SWITCHES - Flow FL 7

- 7.9 GPM @ 5650 PSI
- 165° F Max Fluid
- 230v, 3 Amp
- 3/8" F in/out, 49" Cable

Part#	Description	GPM Stnd	GPM Lvl
8116.2210.00	Flow Switch	2.4	1.6
8116.2211.00	Flow Switch	1.06	.79

SWITCHES - Flow FL 7 MS

- 7.9 GPM @ 5650 PSI
- 165° F Max Fluid
- 230v, 3 Amp
- 3/8" F in/out, 49" Cable

Part#	Description	GPM Stnd
8116.2212.00	Flow Switch, vertical	0.1

SWITCHES - Vacuum

Box Qty 10

- 176° F Max Fluid
- 131° F Max Environment
- 1/4" FNPT Connection
- 230v, 16 Amp

***For Water use Only**

Part#	Description	Size	
8107.2211.00	Vacuum Switch	1.5	MV #0205005510
8107.2212.00	Vacuum Switch	2.0	MV #4090400000
8107.2213.00	Vacuum Switch	2.5	MV #0205005530
8107.2216.00	Vacuum Switch	4.0	MV #0205005550
8107.2217.00	Vacuum Switch	4.5	MV #0205005570

SWIVEL - High Pressure, MR-I

Box Qty 10

- 10.5 GPM Max.
- 5650 PSI Max.
- 320° F Max, Rated (For Short Periods)
- 194° F Max, Working Temp (Continuous Use)
- 3/8" MNPT x 3/8" FNPT

Part#	Description
8116.3503.00	Swivel, Straight, SST AISI 303

SWIVEL - High Pressure

Box Qty 20

- 10.5 GPM Max.
- 4100 PSI
- 300° F Max
- 3/8" F x 3/8" M

Part#	Description
8402.3501.00	Swivel, High Pressure, Brass

SWIVEL - High Pressure (SW-600)

Stainless Steel 303 & 400

- 15.8 GPM @ 9570 PSI
- 212° F Max, Rated (For Short Periods)
- 194° F Max, Working Temp (Continuous Use)
- 3/8" F x 3/8" M

Part#	Description
8116.3505.00	High Pressure, Stainless Steel

SWIVEL - SW Pro

• 8 GPM • 3650 PSI • 302° F • Brass • **Box Qty 10**

*****Turns Easily Under Pressure*****

Part#	Description
8108.8350.00	Swivel, Brass, 3/8" F x 3/8" M MV #4100801004
8108.8351.00	Swivel, Brass, 3/8" M x 3/8" M MV #4100801005
8108.8352.00	Swivel, Brass, 3/8" M x 1/4" M MV #4100801006
8108.8353.00	Swivel, Brass, M22-1.5 x 3/8" M MV #4100801007

SWIVEL - TOP

- 10.6 GPM @ 5075 PSI
- 320° F Max
- 1/2" M Inlet x 1/2" F Outlet
- 3/8" F x 3/8" M
- **Box Qty: 20**

Part#	Description
8108.8357.00	Swivel, Viton MV #4100800007

SWIVEL - High Pressure MR-O

Box Qty 10

- 10.5 GPM @ 4050 PSI
- 320° F Max, Rated (For Short Periods)
- 194° F Max, Working Temp (Continuous Use)
- 3/8" M 60° Taper x 3/8" F

Part#	Description
8116.3501.00	Swivel, Straight, Brass

SWIVEL - SW Std

- 8 GPM @ 4500 PSI
- 302° F Max
- Brass
- **Box Qty 10**

Part#	Description
8108.8354.00	Swivel, 3/8" MPT x 3/8" FPT MV #371703

TERMINATOR - Thermo Engine

- 4000 PSI
- For DC Current Only
- Shuts Engine Down When Pump Hits 145° F

Part#	Description
8104.0001.00	Thermo Engine Terminator

THERMOSTAT

- 1/2" BSP Probe
- 4000 PSI
- 250v
- 15 Amp
- Remote Probe Design
- Precision Temperature Control
- 70" Insulated Cap Tube

Part#	Description
3230.0037.00	194 Degree, 194° F
3230.0036.00	250 Degree, 250° F
3230.0035.00	302 Degree, 302° F
8107.2320.00	Well 1/2" F Top, 3/8" x 3
8107.2307.00	Probe Sheath
2000.0125.00	Bushing, Brass 1/2" NPT

TRASH CAN CLEANER

Part#	Description
7800.0000.00	Trash Can Cleaner
8116.4016.00	Tank Cleaner A80R, 8-10.6 GPM
8116.4020.00	Tank Cleaner A80R, 8.5-22.5 GPM
8116.4031.00	Tank Cleaner A42R, 4-5.3 GPM
8116.4038.00	Tank Cleaner A42R2, 10.5-13.2 GPM
8116.4000.00	Nozzle, Tank Cleaner A80R, 080
8116.4001.00	Nozzle, Tank Cleaner A42R, 040

THREAD LOCK

- Replacement for Locktite
- 250 ML

Part#	Description
8107.3600.00	Thread Lock, Medium
8107.3601.00	Thread Lock, Strong

TAPE - Teflon

- Seal Threaded Connections
- High Quality 1/2" Rolls
- 520" Length
- **Box Quantity 12**

Part#	Description
8102.2900.00	Teflon Tape, Roll

THROTTLE CONTROL

- 3/8" Conical Connection
- 320° F Max.
- Adj. stroke .28-.55"
- 40" Cable
- Pressure at start of stroke 72.5 PSI
- Pressure at end of stroke 290 PSI

Part#	Description
8108.7100.00	Throttle Control, 5800 PSI 4132400001
8108.7101.00	Throttle Control, 8000 PSI, SST 4132400002

UNLOADER - VHP 60

- 26.4 GPM
- 8700 PSI
- 194° F Max
- 1/2" F In/Outlet/By-Pass
- SST AISI 303 Body

Part#	Description
1215.0632.00	Unloader, No Knob MV #4072000103
8108.2587.02	Repair Kit MV #4079900040

UNLOADER - VB 60/600 Zero

- 2.4 GPM Min
- 16 GPM Max
- 8700 PSI
- 195° F
- 1/2" F In/Outlet & By-Pass

Part#	Description
1215.0532.00	Unloader, Stainless Steel 303
8116.2524.01	Repair Kit VB60/600 Zero

UNLOADER - VB80/150-280-400

- 21 GPM
- 195 ° F Max
- 1/2" FPT Inlet/Outlet
- 1/2" FPT By-Pass
- 303 Stainless Steel

Part#	Rated PSI	Max PSI	Color
8116.2523.00	2200	2450	White
8116.2549.00	4050	4500	Blue
8116.2505.00	5800	6500	Black
8116.2505.01	Repair Kit		
8116.2505.02	O-Ring Kit, Viton		

UNLOADER - VB 350

Box Qty 5

- 10.5 GPM
- 5650 Max PSI
- 3/8" M Inlet, 3/8" F Outlet
- 1/2" F By-Pass
- 195° F Max.

Part#	Description
8116.2501.00	Unloader BSP Threads
8116.2517.01	Repair Kit
8116.2561.00	Unloadre NPT Threads

UNLOADER - VHP 39

Box Qty 5

- 10.5 GPM
- 5070 PSI Rated
- 5650 PSI Max
- 194° F Max
- 3/8" FPT In/Outlet
- 3/8" FPT By-Pass x 2

Part#	Description	Color
8108.2546.00	Unloader MV #4072000012	Black
8108.2547.00	Unloader w/EZ Start MV #4072000013	Black
8108.2546.01	Repair Kit MV #4079900009	

UNLOADER - VHP 51

- 26.4 GPM
- 8000 PSI
- 194° F Max
- 1/2" F In/Outlet & By-Pass
- Nickel Plated Brass Body
- Stainless Steel Internal Parts

Part#	Description
8108.2519.00	Unloader, no knob MV #4072000122
8108.2587.02	Repair Kit MV #4079900040

UNLOADER - VHP 70

- 21 GPM
- 194° F Max
- 1/2" FPT In/Outlet & By-Pass
- 303 Stainless Steel
- 1/4" FPT Gauge Port

Part#	Description	Color
8108.2585.00	6380 PSI, No Knob MV #4072201004	Blue
8108.2584.00	10,150 PSI, No Knob MV #4072201003	Black
8108.2584.01	Repair Kit MV #407900030	

UNLOADER - VHP 39-P

Box Qty 5

- 10.5 GPM
- 5650 PSI
- 194° F Max
- 3/8" F In/Outlet
- 3/8" F By-Pass x 2
- Microswitch cable 47", 250v/6a

Part#	Description
8108.2588.00	Unloader, MV #4072000084
8108.2588.01	Repair Kit, MV #4079900038

UNLOADER - VRT 100

- 26.4 GPM
- 194° F Max
- 1/2" FPT In/Outlet & By-Pass

Part#	Description	Color
8108.2564.00	Unloader, 2760 PSI MV #4072000035	Yellow
8108.2565.00	Unloader, 5075PSI MV #4072000036	Blue
8108.2566.00[1]	Unloader, 5075 PSI MV #4078000020	Green
8108.2567.00[2]	Unloader, 5075 PSI MV #4078000021	Green
8108.2565.01	Repair Kit MV #4079900013	

1-Dual By-Pass
2-Dual By-Pass With Knob

UNLOADER - VRT 100-P

- 26.4 GPM
- 5075 PSI
- 194° F Max
- FPT 1/2" F In/Outlet & By-Pass
- Microswitch Cable 47" 250v, 6(2)a

Part#	Description
8108.8503.00	Unloader MV #4072000090
8108.8503.01	Repair Kit MV #4079900039

UNLOADER - VHP 31/250 No Knob

- 66 GPM
- 194° F Max
- G 1" F In/Outlet & By-Pass

Part#	Description	Color
1215.0627.00	Unloader, 2465 PSI MV #4072000094	Gray
1215.0628.00	Unloader, 4500 PSI MV #4072000095	Blk/Gry
8108.7632.01	Repair Kit MV #4079900051	

UNLOADER - VRT 100 No Knob

- 26.4 GPM
- 194° F Max
- 1/2" F In/Outlet & By-Pass
- Nickel Plated Steel

Part#	Description	Color
8108.2586.00	2760 PSI, no knob MV #4072000074	Yellow
8108.2586.01	Repair Kit MV #4079900031	

UNLOADER - VB 33

- 21 GPM
- 4500 PSI Max
- 195° F
- 1/2" FPT In/Out/By-Pass
- 1/4" FPT Gauge Port
- **Box Qty 4**

Part#	Description
8116.2527.00	Unloader VB 33
8116.2527.01	Repair Kit, VB 33

UNLOADER - Pulsar RV

- 10 GPM
- 4500 PSI Max
- 195° F
- 3/8" FPT In/Out/By-Pass

Part#	Description
8116.2564.00	Unloader Pulsar RV, w/ Knob

UNLOADER - Pulsar 4

- 10 GPM
- 195° F Max
- 3/8" FPT In/Outlet & By-Pass

Part#	Description	Color
8116.2536.00	Unloader, 2600 PSI	White
8116.2535.01	Repair Kit Pulsar 4	

UNLOADER - Pulsar RV

- 10 GPM
- 195° F Max
- 3/8" FPT x 2 In/Outlet & By-Pass x 2
- **Box Qty 15**

Part#	Description	Color	
8116.2556.00	Unloader, 2600 PSI	White	B
8116.2539.00	Unloader, 4500 PSI	Blue	A
8116.2540.01	Repair Kit		

UNLOADER - VB 280

- 10.5 GPM
- 4500 PSI Max
- 3/8" M Inlet, 3/8" F Outlet
- 1/2" F By-Pass
- 195 ° F Max
- **Box Qty 5**

Part#	Description
8116.2517.00	Unloader
8116.2517.01	Repair Kit

UNLOADER - VRT 3 Multi-Function

- 10.5 GPM
- 4500 PSI Max
- 194° F Max
- Thermal Relief Valve
- EZ Start
- **Box Qty 10**

Part#	Inlet/Outlet/ By-Pass
8108.2539.00[1]	3/8" FPT MV #4072000019
8108.2540.00[2]	3/8" FPT MV #4072000020
8108.2538.00[3]	3/8" MPT MV #4078000003
8108.2568.00[4]	3/8" FPT MV #4072000085
8108.2532.01	Repair Kit MV #4079900005

1-Includes Relief Valve & Adj. Injector 2.1
2-Includes Relief Valve
3-Includes Adj. Injector 2.1
4-Includes Adj. Injector 2.3 & Relief Valve

UNLOADER - Pulsar RV EZ Start

- 10.5 GPM
- 4500 PSI Max
- 195° F Max
- 3/8" F In/Outlet & By-Pass
- **Box Qty 15**

Part#	Description
8116.2540.00	Unloader with EZ Start
8116.2540.01	Repair Kit

UNLOADER - VRT 3

- 10.5 GPM
- 194° F Max GPM
- 3/8” FPT Inlet x 2 (where noted)
- 3/8” FPT Outlet
- 3/8” FPT By-Pass x 2

Part#	PSI	Color	Box Qty
8108.2530.00	2320 MV #0215010300	Yellow	15
8108.2530.01	Repair Kit MV #4079900004		10
8108.2533.00[1]	2320 MV #0215010330	Yellow	20
8108.2530.01	Repair Kit MV #4079900004		10
8108.2537.00[4]	2320 MV #0215010360	Yellow	15
8108.2530.01	Repair Kit MV #4079900004		10
8108.8504.00[3]	2320 MV #0215010550	Yellow	15
8108.8504.01	Repair Kit MV #4079900006		10
8108.2531.00	3630 MV #0215010310	Blue	15
8108.2530.01	Repair Kit MV #4079900004		10
8108.2534.00[1]	3630 MV #0215010340	Blue	20
8108.2530.01	Repair Kit MV #4079900004		10
8108.8505.00[3]	3630 MV #0215010560	Blue	15
8108.8504.01	Repair Kit MV #4079900006		10
8108.2532.00	4500 MV #0215010320	Black	15
8108.2532.01	Repair Kit MV #4079900005		10
8108.2535.00[1]	4500 MV #0215010350	Black	20
8108.2532.01	Repair Kit MV #4079900005		10
8108.2542.00[2]	4500 MV #4072000002	Black	15
8108.2532.01	Repair Kit MV #4079900005		10
8108.2536.00[3]	4500 MV #4072000009	Black	15
8108.2552.01	Repair Kit MV #4079900007		10
8108.2552.00[5]	4500 MV #4078000019	Black	15
8108.2552.01	Repair Kit MV #4079900007		10
8108.2530.02	Knob MV #400305		
8108.2530.03	Cap, Yellow MV #0128740070		
8108.2532.03	Cap, Black MV #4079900005		

1-No Knob; 2-Includes EZ Start; One Inlet
3-Includes Microswitch 250V/16A; One Inlet
4-1/4” Gauge Port; 5-Panel Mount with PS6 Switch 250v/16a; One Inlet

UNLOADER - Pulsar Zero

- 2.4 GPM Min to 10.5 GPM Max
- 4050 PSI
- 195° F
- 3/8” FPT In/Outlet; By-Pass x 2
- **Box Qty 12**

Part#	Description
8116.2521.00	Reduced Trapped Pressure
8116.2521.01	Repair Kit

UNLOADER - VB 80/280 Zero

- 5.3 GPM Min
- 21 GPM Max
- 4050 PSI
- 195° F
- 1/2” F In/Outlet
- 1/2” F By-Pass
- **Box Qty 4**

Part#	Description
8116.2526.00	Reduced Trapped Pressure
8116.2526.03	Repair Kit VB 80/280 Zero
8116.2526.01	Disc 045, 4.5mm
8116.2526.02	Disc 055, 5.5mm

UNLOADER - VB 56

- 8 GPM
- 3650 PSI
- 3/8” x 1/2” Couplings
- 195° F
- 1/2” FPT
- 3/8” FPT Outlet
- **Box Qty 20**

Part#	Description
8116.2542.00	Unloader
8116.2542.01	Repair Kit

UNLOADER - VB 75

- 8 GPM
- 3200 Rated PSI
- 3650 Max PSI
- 195° F Max
- Banjo Connection
- **Box Qty 20**

Part#	Couplings	Outlet
8116.2516.00	3/8” x 1/2”	3/8” F
8116.2516.01	Repair Kit, VB 75	

UNLOADER - VB 8

- 8 GPM
- 3650 Max PSI
- 195° F Max
- Panel Mount
- 3/8” By-Pass
- **Box Qty 20**

Part#	Description
8116.2562.00	3/8” M Inlet x x3/8” F Outlet

UNLOADER - VB 9

- 8 GPM
- 3650 Max PSI
- 195° F Max
- 3/8” Inlet/Outlet
- 3/8” By-Pass
- 1/4” F Gauge Bolt x 2
- Micro Switch 6A (250V) 39.4” Cable
- **Box Qty 12**

Part#	Description
8116.2562.00	3/8” M Inlet x x3/8” F Outlet

UNLOADER - VRF 2

- 8 GPM
- 194° F Max
- 3/8” M In/Outlet
- **Box Qty 20**

Banjo Kit

Part#	Description	Color
8108.2591.00	Unloader, 3630 PSI MV #4072401007	Red
8108.2590.00	Fixed Injector 2.1, 3630 PSI MV #4072601021	Red
8108.2594.00	Adj. Injector 2.1, 3630 PSI MV #4072601022	Red
8108.2593.00	Unloader, 4500 PSI MV #4072401013	Blue
8108.2592.00	Fixed Injector 2.1, 4500 PSI MV #4072601031	Blue
8108.2595.00	Adj. Injector 2.1, 4500 PSI MV #4072601032	Blue
1215.0548.00	Adj. Injector 2.3, 4500 PSI MV #4072601006	
8108.2591.01	Repair Kit MV #4079900019	

Banjo Inlet Connections

Part#	X-Offset	Y-Offset	In/Outlet
For Comet BW, LW, AW & ZW Series Pumps			
8108.2574.00	0.0 mm MV #0215200502	55/66 mm	1/2”-3/8”
8108.2577.00	Modified w/Thermal Port MV #4073900006		
For Comet FW2 Series Pumps			
8108.2575.00	5.0 mm MV #4073900002	53/66 mm	1/2”-3/8”
For Comet LW Misting Pumps			
8108.2573.00	0.0 mm MV #0215200504	63 mm	3/8”
For Comet RW Pumps			
8108.2576.00	19 mm MV #4073900000	62/75 mm	1/2”-3/8”
8108.2578.00	Modified w/Thermal Port MV #4073900007		

UNLOADER - VRS 3

- 8 GPM
- 3200 Rated PSI
- 3630 Max PSI
- 194° F Max
- 3/8” F In/Outlet & By-Pass

Part#	Description	Color	Box Qty
8108.2548.00	Unloader, No Knob MV #4072000021	Blue	20
8108.2549.00	Unloader MV #4072000018	Blue	20
8108.2530.01	Repair Kit MV #4079900004		10

UNLOADER - VRT 3

- 10.5 GPM
- 194° F Max
- 3/8” F Inlet & Outlet
- SST AISI 303

Part#	PSI	Color	Box Qty
8108.8502.00	3630 MV #4072000107	Blue	15
8108.8506.00	2320 MV 4072000108	Yellow	15
8108.8502.01	Repair Kit MV #4079900054		5

UNLOADER - VRC 25

*****Compensated*****

- 8 GPM
- 3630 PSI
- 194° F Max GPM
- Inlet/Outlet 3/8” FPT
- By-Pass 3/8” FPT

Part#	Description	Box Qty
8108.2580.00[1]	Unloader, Panel Mount MV #0215010510	15
8108.2581.00[1]	Unloader, No Knob MV #0215010520	20
8108.2580.01	Repair Kit, Unloader MV #4079900011	10
8108.2582.00	Unloader, w/Switch, Panel Mt MV #0215010530	15
8108.2583.00	Unloader, w/Switch, No Knob MV #0215010540	15
8108.2582.01	Repair Kit, Unloader w/Switch MV #4079900010	10

[1] Gauge Port 1/4” FPT

UNLOADER - VR 56

- 8 GPM
- 3625 PSI
- 194° F
- 3/8” MPT In/Outlet
- 3/8” FPT By-Pass
- 1/4” FPT Gauge Port

Part#	Description	Box Qty
8108.2551.00	Unloader MV #4072000030	20
8108.2591.01	Repair Kit, Seal MV #4079900019	10
8108.2551.01	Repair Kit MV #4079900014	

UNLOADER - VB 85/150 & 310

- 21 GPM
- 195° F Max
- 1/2” F In/Outlet & By-Pass
- **Box Qty 4**

Part#	Description	Color
8116.2533.00	Unloader, VB 85/180, 2600 PSI	White
8116.2534.00	Unloader, VB 85/310, 4500 PSI	Blue
8116.2533.01	Repair Kit	

UNLOADER - VB-200/150

- 53 GPM
- 2450 PSI
- 195° F
- 1” FPT Inlet/Outlet
- 1” FPT By-Pass

Part#	Description
8116.2502.00	Unloader
8116.2502.01	Repair Kit

UNLOADER - VR 54

- 8 GPM
- 194° F Max
- 3/8” M In/Outlet
- 3/8” F By-Pass

Part#	Description	Color
8108.2541.00*	Unloader, 2175 PSI MV #4072000056	Black
8108.2543.00	Unloader, 2900 PSI MV #4072000041	Red
8108.2544.00	Unloader, 2175 PSI MV #4072000051	Black
8108.2544.01	Repair Kit MV #4079900020	

***With Locking Nut**

UNLOADER - Flow Actuated K7

- 165°F Max Temp
- 0-3000 PSI
- Eliminates Trapped Pressure Between Pump & Gun

Part#	GPM	Inlet	Outlet
1215.0373.00	2.9 - 4.2	3/8” F	3/8” M
1215.0374.00	4.2 - 6.6	3/8” F	3/8” M

UNLOADER - Mounting Block

- 4000 PSI Max
- 2 - 3/8” FPT Ports
- Solid Machined Part
- 5/16” x 18 Mounting Holes
- For Remote Mounting of Unloader Valves

Part#	Description
8102.0551.00	Mounting Block, Aluminum
8102.0552.00	Mounting Block, Zinc Plated

VALVES - Ball, Shut-Off

- 7400 PSI Industrial Duty
- Chrome Plated Steel Ball
- Zinc Plated Steel Body
- 212°F

Part#	Description	GPM
8109.2601.00	1/4” FPT x 1/4” F	2.64
8109.2602.00	3/8” FPT x 3/8” F	6.60
8109.2603.00	1/2” FPT x 1/2” F	10.57

VALVES - Ball, Shut-Off

- Chrome Plated Steel Ball
- Zinc Plated Steel Body
- 212°F

Part#	Description	GPM	PSI
8402.2601.00	1/4” FPT x 1/4” F	1.79	7250
8402.2602.00	3/8” FPT x 3/8” F	4.97	7250
8402.2603.00	1/2” FPT x 1/2” F	8.41	7250
8402.2604.00	3/4” FPT x 3/4” F	19.9	7250
8402.2608.00	1” FPT x 1” F	31.1	5000
8402.2611.00	1 1/4” F x 1 1/4” F	145	5000
8402.2612.00	1 1/2” F x 1 1/2” F	185	5000

VALVES - Ball, Shut-Off

- 7000 PSI
- Stainless Steel Body
- 212°F

Part#	Description
8102.2640.00	Ball Valve, 3/8” FPT x 3/8” FPT

VALVES - Ball, Shut-Off, 3-Way

- Chrome Plated Steel Ball
- Zinc Plated Steel Body
- 212°F

Part#	Description	GPM	PSI
8402.2615.00	3/8" FPT x 3/8" F	4.97	7250
8402.2623.00	1/2" FPT x 1/2" F	8.41	7250
8402.2620.00	3/4" FPT x 3/4" F	19.9	7250
8402.2621.00	1" FPT x 1" F	31.1	5000
8402.2622.00	1-1/4" FPT x 1-1/4" F	50.9	5000

VALVES - Ball, Shut-Off

- 3045 PSI
- Nickel Plated Brass Body
- 176° F
- **Box Qty 5**

Part#	Description
8107.2630.00	Ball Valve, 3/8" F x 3/8" F
8107.2631.00	Ball Valve, 1/2" F x 1/2" F

VALVES - Ball, Shut-Off

- 1500 PSI
- 300° F

Part#	Description
7600.2604.00	Ball Valve, 1/4" M x 1/4" F

VALVES - Ball, Economy Lever

- 200 PSI Rating
- -4 to 250°F
- Chromed Brass Body
- Chromed Ball & Stem
- Teflon Seat & Viton Seals

Part#	Description	In/Outlet
MVL18FF	Nylon Lever Handle	1/8" FNPTxFNPT
MVL18FM	Nylon Lever Handle	1/8" FNPTxMNPT
MVL14FF	Nylon Lever Handle	1/4" FNPTxFNPT
MVL14FM	Nylon Lever Handle	1/4" FNPTxMNPT
MVL38FF	Nylon Lever Handle	3/8" FNPTxFNPT
MVL38FM	Nylon Lever Handle	3/8" FNPTxMNPT
MVL12FF	Nylon Lever Handle	1/2" FNPTxFNPT
MVL12FM	Nylon Lever Handle	1/2" FNPTxMNPT

VALVES - Ball, Economy Butterfly

- 200 PSI Rating
- -4 to 250°F
- Chromed Brass Body
- Chromed Ball & Stem
- Teflon Seat & Viton Seals

Part#	Description	In/Outlet
MVT18FF	Nylon Butterfly T	1/8" FNPTxFNPT
MVT18FM	Nylon Butterfly T	1/8" FNPTxMNPT
MVT14FF	Nylon Butterfly T	1/4" FNPTxFNPT
MVT14FM	Nylon Butterfly T	1/4" FNPTxMNPT
MVT38FF	Nylon Butterfly T	3/8" FNPTxFNPT
MVT38FM	Nylon Butterfly T	3/8" FNPTxMNPT
MVT12FF	Nylon Butterfly T	1/2" FNPTxFNPT
MVT12FM	Nylon Butterfly T	1/2" FNPTxMNPT

VALVES - EZ Start

- Release Trapped System Pressure
- For Starting Gasoline Engines
- 1.6 GPM Valve Closure Flow
- 8 GPM
- 4060 PSI Max
- 194° F
- **Box Qty 10**

Part#	Description
8107.1750.00	3/8" MPT, 90° w/Hose Barb

VALVES - EZ Start

- Release Trapped System Pressure
- For Starting Gasoline Engines
- 3500 PSI Max
- 1/4" Hose Barb

Part#	Description
8102.1750.00	3/8" MPT w/Hose Barb

VALVES - Jetter

- Converts Triplex Pump to Duplex Pump
- Replaces Inlet Valve Cap

Part#	Description
0608.0034.00	LW, FW2 & ZW up to 3000 PSI
0608.0035.00	ZW, RW & SW over 3000 PSI
0608.0036.00	RW & TW up to 3600 PSI
0608.0037.00	TW over 3600 PSI

*** TW 8040 S uses 0608.0036.00**

VALVES - Pressure Regulating

- 21 GPM
- 8100 Rated PSI
- 8700 Max PSI
- 195° F Max
- 1/2” F In/Outlet & By-Pass
- Stainless Steel 303

Part#	Description
8116.2506.00	Regulating Valve, VRP 600
8116.2506.01	Repair Kit

VALVES - Pressure Regulating

- 8.0 GPM
- 194° F
- 3/8” FPT Inlet & By-Pass
- SST AISI 303
- Viton O-Ring &Ceramic Ball
- **Box Qty 5**

Part#	Description
8108.7634.00	VXR 3, 2320 PSI, Yellow, No Knob MV #4072300002
8108.7635.00	VXR 3, 4500 PSI, Black, No Knob MV #4072300003
8108.7634.01	Repair Kit MV #4079900028

VALVES - Pressure Regulating

- 8.0 GPM
- 194° F
- 3/8” FPT In/Outlet & By-Pass
- **Box Qty 20**

Part#	Description
8108.7636.00	VRS3R, 2320 PSI, Yellow, No Knob MV #4072000092
8108.7637.00	VRS3R, 3630 PSI, Blue, No Knob MV #4072000093
8108.7636.01	Repair Kit MV #4079900042

VALVES - Pressure Regulating

- 120 GPM
- 2900 Rated PSI
- 3200 Max PSI
- 195° F
- 1-1/4” FPT In/Outlet
- 1-1/2” FPT By-Pass

Part#	Description
8116.2626.00	Regulating Valve, VRP 450-200

VALVES - Restrictor, Flow VP 2

- 8 GPM
- 4060 PSI
- 320° F
- **Box Qty 10**

Part#	Description
8108.8220.00	Valve, 1/4” M In, 1/4” F Out MV #4130100001
8108.7025.00	Valve, M22M x M22F MV #4130100002
8108.8220.01	Repair Kit MV #4139900002

VALVES - Safety SVL 50

- 26.4 GPM
- 8100 PSI
- 194° F

Part#	Description
8108.7628.00	Valve, 1/2” F Inlet x 1/2” F By-Pass MV #4073500003
8108.7628.01	Repair Kit MV #4079900048

VALVES - Safety Relief

Part#	Description
8102.2621.00	3/8” MPT, 6 GPM, 6000 PSI, 195° F
8107.2620.00	1/4” M x 1/4” F, 6.4 GPM, 2200 PSI, 194° F

VALVES - Safety Relief SVT

- 6.6 GPM
- 194° F
- 3/8” FPT Inlet x By-Pass

Part#	Description	Box Qty
8108.7624.00	Valve, 5800PSI, SVT 40 MV #0215010430	5
8108.7620.00	Valve, 4060PSI, SVT 28 MV #0215010190	24
8108.7622.00	Valve, 2450 PSI, SVT 17 MV #4072000032	24
8108.7620.01	Repair Kit SVT 28 & 17 MV #4079900012	5
8108.7624.01	Repair Kit SVT 40 MV #4079900034	5

VALVES - Safety Relief VLP

- 4060 PSI
- 230° F
- 1/4" M Inlet
- P.G. 016 mm Outlet

Part#	Description	Box Qty
8108.7638.00	Safety Valve, 2.1-3.2 GPM MV #4073500010	20
8108.7639.00	Safety Valve, 3.4-4.5 GPM MV #4073500011	20
8108.7660.00	Safety Valve, 4.5-5.6 GPM MV #4073500012	20

VALVES - Safety Relief VS 310

- 11 GPM
- 5100 PSI
- 195° F
- **Box Qty 4**

Part#	Description
8116.2625.00	Valve, 3/8" F Inlet & By-Pass
8116.2625.01	Repair Kit

VALVES - Safety Relief SVL 22/450

- 120 GPM
- 4800 PSI
- 194° F
- Allowable Setting Pressure 1450-2900 PSI

Part#	Description
8108.7630.00	Valve, 1" F Inlet x 1" F By-Pass MV #4073500001
8108.7630.01	Repair Kit MV #4079900036

VALVES - Safety Relief SVX

- 8 GPM
- 4500 PSI
- 194° F
- Stainless Steel AISI 303

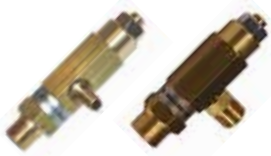
Part#	Description
8108.7627.00	Valve, Stainless 3/8" FPT x 3/8" FPT MV #4073200001
8108.7627.01	Repair Kit MV #4073200001

VALVES - Safety Relief SVL

- 6.6 GPM
- 194° F
- 3/8" NPT Inlet x By-Pass
- 362 PSI Min Adjust Pressure
- **Box Qty 24**

Part#	Description
8108.7623.00	Safety Valve SVL 17, 2450 PSI MV #4072000031
8108.7621.00	Safety Valve SVL 28, 4060 PSI MV #0215010220
8108.7620.01	Repair Kit MV #4079900012

VALVES - Safety Relief



- 8 GPM
- 3625 PSI
- 194° F
- Adjustable Pressure Relief
- **Box Qty 10**

Part#	Description
8107.2621.00	3/8" M, 1/4" M Discharge
8107.2621.01	3/8" M, 1/4" Hose Barb Discharge

VALVES - Safety

- 4 GPM
- 176° F
- Adjustable Pressure Relief

Part#	Description
1215.0311.00	Safety Valve 1/8" M, 3000 PSI
1215.0443.00	Safety Valve 1/8" M, 3625 PSI

VALVES - Thermal Relief

- 145 PSI Max. Inlet Pressure
- 133° F Relief Temp.
- Protects Pumps from Overheating

Part#	Description
1215.0523.00	Thermal Relief Valve 1/4"
1215.0354.00	Thermal Relief Valve 3/8"
1215.0355.00	Thermal Relief Valve 1/2"

VALVES - Thermal Relief

- 200 PSI
- Protects Pumps from Overheating

A B

Part#	Description	Temp	Style
8102.1700.00	Thermal Relief Valve 3/8”	145° F	**A**
8402.1700.00	Thermal Relief Valve 3/8”	140° F	**B**
8102.1701.00	Thermal Relief Valve 1/2”	145° F	**A**
8402.1701.00	Thermal Relief Valve 1/2”	140° F	**B**
8402.1702.00	Thermal Relief Valve 1/4”	140° F	**B**

WATER BROOM

- 1/4” QD Plug
- 4000 PSI

Part#	Description
8402.2500.00	12”, 3 GPM, 3 Nozzles
8402.2501.00	16”, 3 GPM, 4 Nozzles
8113.3163.00	Nozzle, Meg, 1/4” 6513

WATER BROOM - Under Car

- 1/4” QD Plug
- 4000 PSI
- 3 GPM
- 4 Nozzles

Part#	Description
PK-85400062	Undercarriage Water Broom 16”

PRESSURE WASHERS

STATIC - Cold Water

- 2.2 GPM
- 1300 PSI
- 115V-60Hz-1 Phase
- 14 Amps-1500W
- Gun & Lance w/Vari-Jet
- Hose Reel w/65’(20m) Rubber Hose
- Turbo Nozzle, Foamer & Rotating Brush
- Wall Mountable

Part#	Description
9052.0007.00	Static 1700

TRACTOR PTO - Pressure Washer

- Complete Pressure Washer
- Includes Frame, Pump & Accessories
- 3 Point Hitch
- 550 RPM Power Take-Off
- Frame Folds for Shipping

Part#	Description
9045.0005.00	PTO 30/170 w/Frame TWN 8025 S
9045.0014.00	PTO 21/200 w/Frame RW 5530 S
9045.0002.00	PTO 33/150 w/Frame TW 8030 S
9045.0003.00	PTO 23/200 w/Frame TWN 6036 S
9045.0015.00	PTO 10/300 w/Frame TW 4545 S
9045.0010.00	PTO 30/170 TWN 8025 S, 8 @ 2500
9045.0016.00	PTO 21/200 RW 5530 S, 5.5 @ 3000
9045.0007.00	PTO 33/150 TW 8030 S, 8.8 @ 2175
9045.0008.00	PTO 23/200 TWN 6036 S,8.7@3000
5005.0238.00	Gear Box, 550 RPM
5003.0050.00*	Kit, Conversion, 1000 RPM
8102.1801.00	Oil, Bottle

***Needed with Gear Box to convert to 1000 RPM for TWN PTO**

CONVERSION TABLES & FORMULAS

Weights & Volumes

Gal.	x	3.785	=	Liters
Gal.	x	128	=	Ounces
Gal	x	231	=	Cu. In.
Gal.	x	8.3453	=	Pounds
Ltr.	x	61.02	=	Cu. In.
Ltr.	x	33.82	=	Ounces
Ltr	x	.2642	=	Gallons
Ltr.	x	1000	=	Cubic CM
ML (CC)	x	.0338	=	Ounces
Gram	x	.03527	=	Ounces
PSI	x	.0680	=	Bar
Bar	x	14.5	=	PSI
In. HG	x	.4912	=	PSI
In. H2O	x	.8226	=	In. HG

Torque

NM	=	Ft./lb.	x	1.35
Ft./lb.	=	NM	/	1.35
In./lb.	=	Ft./lb.	x	12

Temperatures

°C = .555(°F-32)

°F = (1.8*°C)+32

Required Horsepower

$\frac{\text{GPM x PSI}}{1460}$ = Elec. Brake HP

$\frac{\text{GPM x PSI}}{1714}$ = Hydraulic HP

$\frac{\text{GPM x PSI}}{1100}$ = Gasoline HP

Length Calculations

.001 in.	x	25.4	=	Microns
In.	x	25.4	=	MM
MM	x	.03937	=	Inches

Belt Length = 2 x CD + D + d x 1.57

Nozzles

$$\text{Nozzle \#} = \text{GPM} \times \left(\sqrt{\frac{4000}{\text{PSI}}}\right)$$

$$\text{GPM} = \text{Nozzle \#} \times \left(\sqrt{\frac{\text{PSI}}{4000}}\right)$$

$$\text{PSI} = 4000 \times \left(\frac{\text{GPM}}{\text{Nozzle \#}}\right)^2$$

Pulley Ratio

$$\frac{\text{Motor Pulley OD}}{\text{Pump RPM}} = \frac{\text{Pump RPM}}{\text{Motor Pulley OD}}$$

Sample Pump Model Number

LWD 2220 G

- BX = Small Axial
- BW = Small Frame
- VRX = Small Vertical
- AX = Large Axial
- AW = Small Frame
- LW = Small Frame
- ZW = Large Frame
- FW = Large Frame
- FW2 = Large Frame
- HW = Large Frame
- RW = Premium Series
- SW = Premium Series
- TW = Premium Series

GPM (i.e.. 22 = 2.2)

N= 1000 RPM
_= 1450 RPM
S= 1750 RPM
D= 3400 RPM

PSI (i.e.. 20 = 2000)

S = Solid Shaft
E = Elec. Flange & Shaft
G = Gas Flange & Shaft

Sizing Chart for Hi-Lo Vari Nozzles

NOZZLE		PRESSURE - PSI											
#	Dia. mm	600	700	800	900	1000	1200	1500	1800	2000	2500	3000	3200
028	1.15	1.08	1.17	1.25	1.33	1.40	1.53	1.71	1.88	1.98	2.21	2.42	2.50
030	1.20	1.16	1.25	1.34	1.42	1.50	1.64	1.84	2.01	2.12	2.37	2.60	2.68
035	1.30	1.36	1.46	1.57	1.66	1.75	1.92	2.14	2.35	2.47	2.77	3.03	3.13
037	1.35	1.43	1.55	1.65	1.76	1.85	2.03	2.27	2.48	2.62	2.93	3.20	3.31
040	1.38	1.55	1.67	1.79	1.90	2.00	2.19	2.45	2.68	2.83	3.16	3.46	3.58
042	1.40	1.63	1.76	1.88	1.99	2.10	2.30	2.57	2.82	2.97	3.32	3.64	3.76
045	1.45	1.74	1.88	2.01	2.13	2.25	2.46	2.76	3.02	3.18	3.56	3.90	4.02
050	1.50	1.94	2.09	2.24	2.37	2.50	2.74	3.06	3.35	3.54	3.95	4.33	4.47
055	1.55	2.13	2.30	2.46	2.61	2.75	3.01	3.37	3.69	3.89	4.35	4.76	4.92
058	1.60	2.25	2.43	2.59	2.75	2.90	3.18	3.55	3.89	4.10	4.59	5.02	5.19
060	1.65	2.32	2.51	2.68	2.85	3.00	3.29	3.67	4.02	4.24	4.74	5.20	5.37
065	1.70	2.52	2.72	2.91	3.08	3.25	3.56	3.98	4.36	4.60	5.14	5.63	5.81
		GALLONS PER MINUTE											

Nozzle size for Rotating Nozzles (GPM)

PSI	030	035	040	045	050	055	060	070	080	120
3000	2.60	3.03	3.46	3.90	4.33	4.76	5.20	6.06	6.93	10.39
3700	2.89	3.37	3.85	4.33	4.81	5.29	5.77	6.73	7.69	11.54
4000	3.00	3.50	4.00	4.50	5.00	5.50	6.00	7.00	8.00	12.00
4500	3.18	3.71	4.24	4.77	5.30	5.83	6.36	7.42	8.49	12.73
5000	3.35	3.91	4.47	5.03	5.59	6.15	6.71	7.83	8.94	13.42
5800	3.61	4.21	4.82	5.42	6.02	6.62	7.22	8.43	9.63	14.45

NOZZLES FLOW CHART

NOZZLE SIZE

	bar	50	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200	1300	1400	1500
	MPa	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100	110	120	130	140	150
	Psi	725	1450	2175	2900	3625	4350	5075	5800	6525	7250	8700	10150	11600	13050	14500	15950	17400	18850	20300	21750
01	l/min	1,63	2,30	2,82	3,25	3,64	3,98	4,30	4,60	4,88	5,14	5,63	6,09	6,51	6,90	7,27	7,63	7,97	8,29	8,61	8,91
	US gpm	0,44	0,60	0,75	0,87	0,97	1,07	1,15	1,23	1,31	1,38	1,51	1,63	1,74	1,85	1,95	2,04	2,13	2,22	2,30	2,38
015	l/min	2,40	3,40	4,16	4,81	5,38	5,89	6,36	6,80	7,21	7,60	8,33	9,00	9,62	10,20	10,75	11,28	11,78	12,26	12,72	13,17
	US gpm	0,64	0,90	1,11	1,29	1,44	1,58	1,70	1,82	1,93	2,03	2,23	2,41	2,57	2,73	2,88	3,02	3,15	3,28	3,40	3,52
02	l/min	3,25	4,60	5,63	6,51	7,27	7,97	8,61	9,20	9,76	10,29	11,27	12,17	13,01	13,80	14,55	15,26	15,93	16,59	17,21	17,82
	US gpm	0,87	1,20	1,51	1,74	1,95	2,13	2,30	2,46	2,61	2,75	3,01	3,26	3,48	3,69	3,89	4,08	4,26	4,44	4,60	4,77
022	l/min	3,54	5,00	6,12	7,07	7,91	8,66	9,35	10,00	10,61	11,18	12,25	13,23	14,14	15,00	15,81	16,58	17,32	18,03	18,71	19,36
	US gpm	0,95	1,32	1,64	1,89	2,12	2,32	2,50	2,68	2,84	2,99	3,28	3,54	3,78	4,01	4,23	4,44	4,63	4,82	5,01	5,18
025	l/min	4,03	5,70	6,98	8,06	9,01	9,87	10,66	11,40	12,09	12,75	13,96	15,08	16,12	17,10	18,02	18,90	19,75	20,55	21,33	22,08
	US gpm	1,08	1,51	1,87	2,16	2,41	2,64	2,85	3,05	3,24	3,41	3,74	4,03	4,31	4,58	4,82	5,06	5,28	5,50	5,71	5,91
028	l/min	4,53	6,40	7,84	9,05	10,12	11,09	11,97	12,80	13,58	14,31	15,68	16,93	18,10	19,20	20,24	21,23	22,17	23,08	23,95	24,79
	US gpm	1,21	1,69	2,10	2,42	2,71	2,97	3,20	3,42	3,63	3,83	4,19	4,53	4,84	5,14	5,41	5,68	5,93	6,17	6,41	6,63
03	l/min	4,81	6,80	8,33	9,62	10,75	11,78	12,72	13,60	14,42	15,21	16,66	17,99	19,23	20,40	21,50	22,55	23,56	24,52	25,44	26,34
	US gpm	1,29	1,81	2,23	2,57	2,88	3,15	3,40	3,64	3,86	4,07	4,46	4,81	5,15	5,46	5,75	6,03	6,30	6,56	6,81	7,05
033	l/min	5,30	7,50	9,19	10,61	11,86	12,99	14,03	15,00	15,91	16,77	18,37	19,84	21,21	22,50	23,72	24,87	25,98	27,04	28,06	29,05
	US gpm	1,42	1,99	2,46	2,84	3,17	3,48	3,75	4,01	4,26	4,49	4,92	5,31	5,68	6,02	6,35	6,66	6,95	7,23	7,51	7,77
035	l/min	5,66	8,00	9,80	11,31	12,65	13,86	14,97	16,00	16,97	17,89	19,60	21,17	22,63	24,00	25,30	26,53	27,71	28,84	29,93	30,98
	US gpm	1,51	2,11	2,62	3,03	3,38	3,71	4,00	4,28	4,54	4,79	5,24	5,66	6,05	6,42	6,77	7,10	7,41	7,72	8,01	8,29
037	l/min	5,94	8,40	10,29	11,88	13,28	14,55	15,71	16,80	17,82	18,78	20,58	22,22	23,76	25,20	26,56	27,86	29,10	30,29	31,43	32,53
	US gpm	1,59	2,23	2,75	3,18	3,55	3,89	4,20	4,49	4,77	5,03	5,50	5,95	6,36	6,74	7,11	7,45	7,79	8,10	8,41	8,70
04	l/min	6,43	9,10	11,15	12,87	14,39	15,76	17,02	18,20	19,30	20,35	22,29	24,08	25,74	27,30	28,78	30,18	31,52	32,81	34,05	35,24
	US gpm	1,72	2,41	2,98	3,44	3,85	4,22	4,55	4,87	5,16	5,44	5,96	6,44	6,89	7,30	7,70	8,07	8,43	8,78	9,11	9,43
042	l/min	6,79	9,60	11,76	13,58	15,18	16,63	17,96	19,20	20,36	21,47	23,52	25,40	27,15	28,80	30,36	31,84	33,26	34,61	35,92	37,18
	US gpm	1,82	2,53	3,15	3,63	4,06	4,45	4,81	5,14	5,45	5,74	6,29	6,80	7,26	7,71	8,12	8,52	8,90	9,26	9,61	9,95
045	l/min	7,28	10,30	12,61	14,57	16,29	17,84	19,27	20,60	21,85	23,03	25,23	27,25	29,13	30,90	32,57	34,16	35,68	37,14	38,54	39,89
	US gpm	1,95	2,71	3,38	3,90	4,36	4,77	5,16	5,51	5,85	6,16	6,75	7,29	7,79	8,27	8,71	9,14	9,55	9,94	10,31	10,67
05	l/min	8,06	11,40	13,96	16,12	18,02	19,75	21,33	22,80	24,18	25,49	27,92	30,16	32,24	34,20	36,05	37,81	39,49	41,10	42,65	44,15
	US gpm	2,16	3,01	3,74	4,31	4,82	5,28	5,71	6,10	6,47	6,82	7,47	8,07	8,63	9,15	9,64	10,12	10,57	11,00	11,41	11,81
053	l/min	8,56	12,10	14,82	17,11	19,13	20,96	22,64	24,20	25,67	27,06	29,64	32,01	34,22	36,30	38,26	40,13	41,92	43,63	45,27	46,86
	US gpm	2,29	3,19	3,96	4,58	5,12	5,61	6,06	6,47	6,87	7,24	7,93	8,57	9,16	9,71	10,24	10,74	11,21	11,67	12,11	12,54
055	l/min	8,84	12,50	15,31	17,68	19,76	21,65	23,39	25,00	26,52	27,95	30,62	33,07	35,36	37,50	39,53	41,46	43,30	45,07	46,77	48,41
	US gpm	2,36	3,31	4,10	4,73	5,29	5,79	6,26	6,69	7,09	7,48	8,19	8,85	9,46	10,03	10,58	11,09	11,58	12,06	12,51	12,95
06	l/min	9,69	13,70	16,78	19,37	21,66	23,73	25,63	27,40	29,06	30,63	33,56	36,25	38,75	41,10	43,32	45,44	47,46	49,40	51,26	53,06
	US gpm	2,59	3,61	4,49	5,18	5,80	6,35	6,86	7,33	7,78	8,20	8,98	9,70	10,37	11,00	11,59	12,16	12,70	13,22	13,71	14,20
065	l/min	10,47	14,80	18,13	20,93	23,40	25,63	27,69	29,60	31,40	33,09	36,25	39,16	41,86	44,40	46,80	49,09	51,27	53,36	55,38	57,32
	US gpm	2,80	3,91	4,85	5,60	6,26	6,86	7,41	7,92	8,40	8,85	9,70	10,48	11,20	11,88	12,52	13,13	13,72	14,28	14,82	15,34
070	l/min	11,31	16,00	19,60	22,63	25,30	27,71	29,93	32,00	33,94	35,78	39,19	42,33	45,25	48,00	50,60	53,07	55,43	57,69	59,87	61,97
	US gpm	3,03	4,22	5,24	6,05	6,77	7,41	8,01	8,56	9,08	9,57	10,49	11,33	12,11	12,84	13,54	14,20	14,83	15,43	16,02	16,58
075	l/min	12,09	17,10	20,94	24,18	27,04	29,62	31,99	34,20	36,27	38,24	41,89	45,24	48,37	51,30	54,07	56,71	59,24	61,65	63,98	66,23
	US gpm	3,24	4,52	5,60	6,47	7,23	7,92	8,56	9,15	9,71	10,23	11,21	12,10	12,94	13,73	14,47	15,17	15,85	16,50	17,12	17,72
080	l/min	12,87	18,20	22,29	25,74	28,78	31,52	34,05	36,40	38,61	40,70	44,58	48,15	51,48	54,60	57,55	60,36	63,05	65,62	68,10	70,49
	US gpm	3,44	4,82	5,96	6,89	7,70	8,43	9,11	9,74	10,33	10,89	11,93	12,88	13,77	14,61	15,40	16,15	16,87	17,56	18,22	18,86
085	l/min	13,72	19,40	23,76	27,44	30,67	33,60	36,29	38,80	41,15	43,38	47,52	51,33	54,87	58,20	61,35	64,34	67,20	69,95	72,59	75,14
	US gpm	3,67	5,12	6,36	7,34	8,21	8,99	9,71	10,38	11,01	11,61	12,71	13,73	14,68	15,57	16,41	17,21	17,98	18,71	19,42	20,10
090	l/min	14,50	20,50	25,11	28,99	32,41	35,51	38,35	41,00	43,49	45,84	50,21	54,24	57,98	61,50	64,83	67,99	71,01	73,91	76,70	79,40
	US gpm	3,88	5,42	6,72	7,76	8,67	9,50	10,26	10,97	11,63	12,26	13,43	14,51	15,51	16,45	17,34	18,19	19,00	19,78	20,52	21,24
10	l/min	16,12	22,80	27,92	32,24	36,05	39,49	42,65	45,60	48,37	50,98	55,85	60,32	64,49	68,40	72,10	75,62	78,98	82,21	85,31	88,30
	US gpm	4,31	6,02	7,47	8,63	9,64	10,57	11,41	12,20	12,94	13,64	14,94	16,14	17,25	18,30	19,29	20,23	21,13	21,99	22,82	23,63
12	l/min	19,37	27,40	33,56	38,75	43,32	47,46	51,26	54,80	58,12	61,27	67,12	72,49	77,50	82,20	86,65	90,88	94,92	98,79	102,52	106,12
	US gpm	5,18	7,23	8,98	10,37	11,59	12,70	13,71	14,66	15,55	16,39	17,96	19,40	20,73	21,99	23,18	24,31	25,39	26,43	27,43	28,39
15	l/min	24,18	34,20	41,89	48,37	54,07	59,24	63,98	68,40	72,55	76,47	83,77	90,48	96,73	102,60	108,15	113,43	118,47	123,31	127,96	132,46
	US gpm	6,47	9,03	11,21	12,94	14,47	15,85	17,12	18,30	19,41	20,46	22,41	24,21	25,88	27,45	28,93	30,35	31,70	32,99	34,24	35,44
20	l/min	32,24	45,60	55,85	64,49	72,10	78,98	85,31	91,20	96,73	101,96	111,70	120,65	128,98	136,80	144,20	151,24	157,96	164,41	170,62	176,61
	US gpm	8,63	12,04	14,94	17,25	19,29	21,13	22,82	24,40	25,88	27,28	29,88	32,28	34,51	36,60	38,58	40,46	42,26	43,99	45,65	47,25

l/min
US gpm